The
CHEMIST AND DRUGGIST

Established 1859 28 Essex Street, Strand, London, W.C.2 *Registered as a Newspaper*

No. 2981
VOL. CXXVI

MARCH 27, 1937

Annual Subscription (with Diary) 20/-. *Single Copies* 9*d*.

IMPORTANT NEWS!

RU-MARI LTD. desire to announce the introduction of a

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WHOLESALE 4/10½ WHOLESALE 9/-

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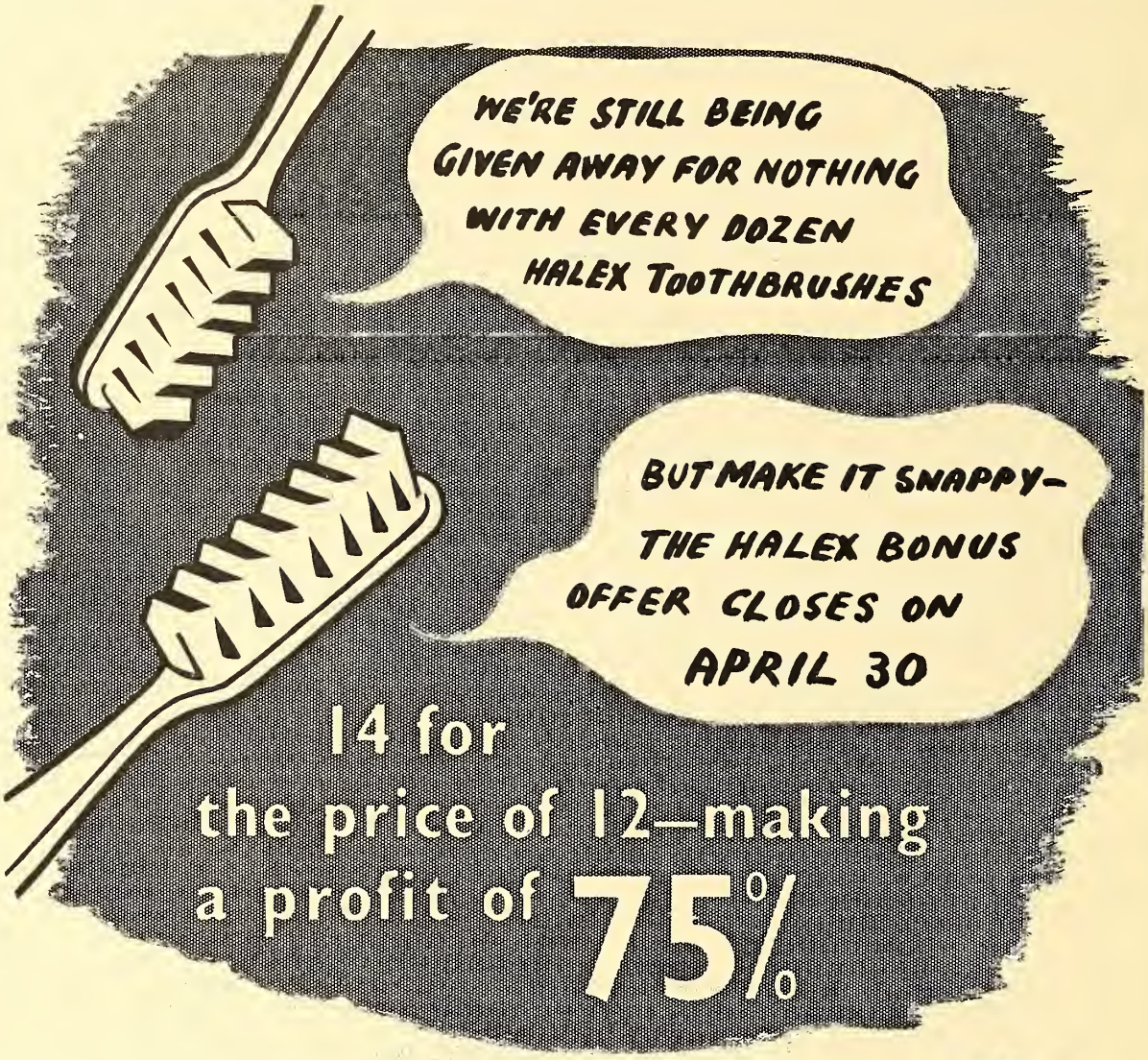

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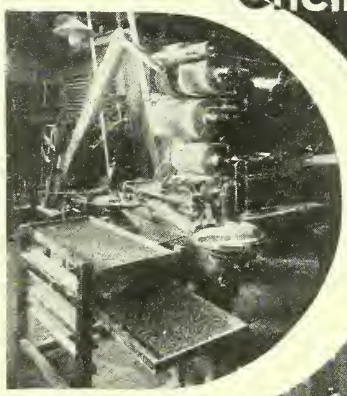

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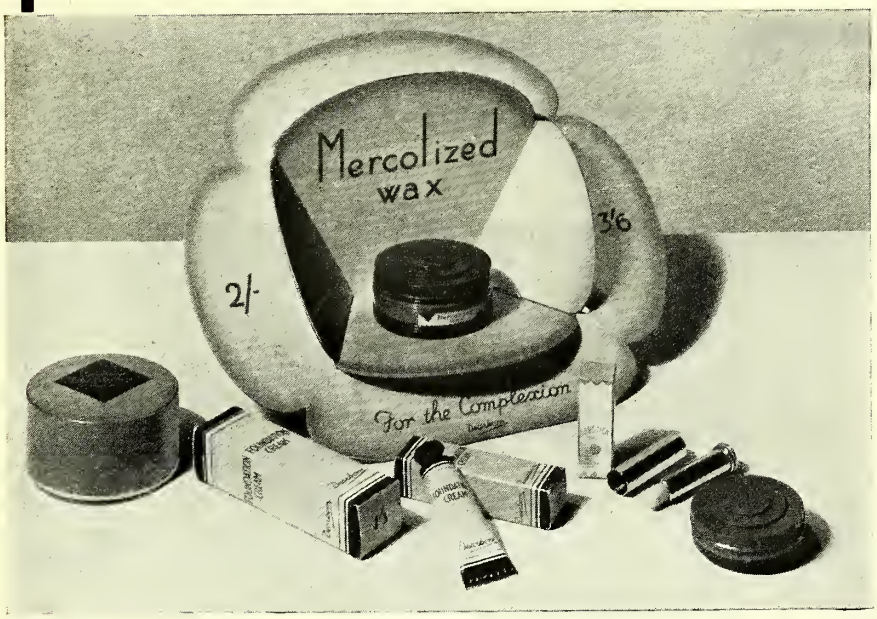

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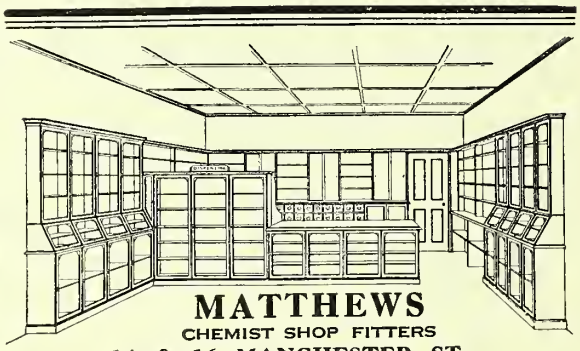

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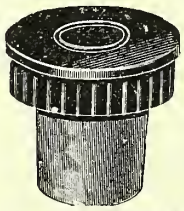

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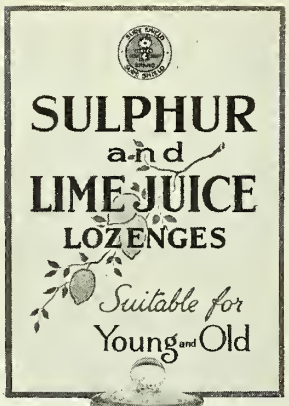

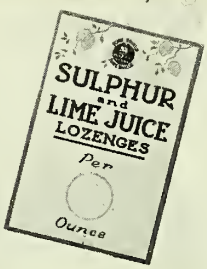

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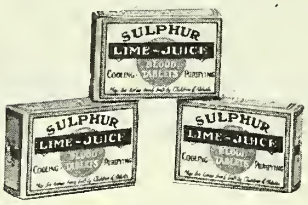

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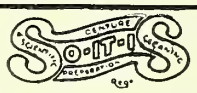

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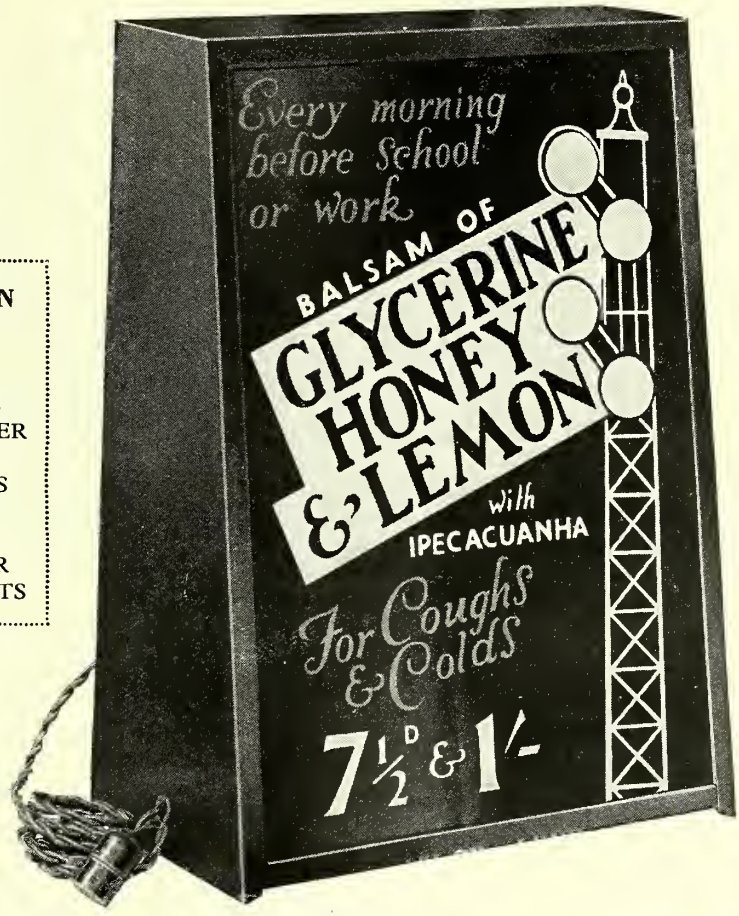

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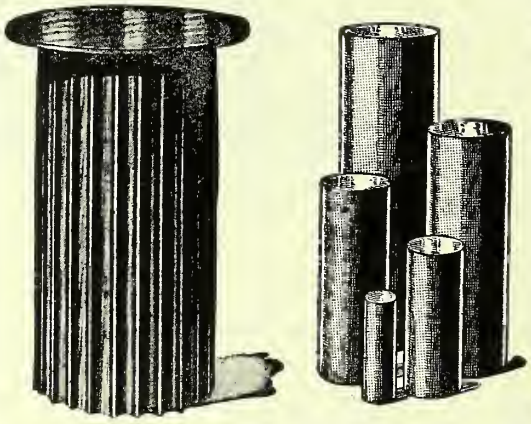

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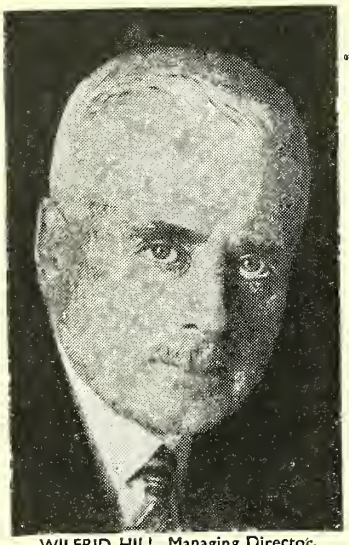

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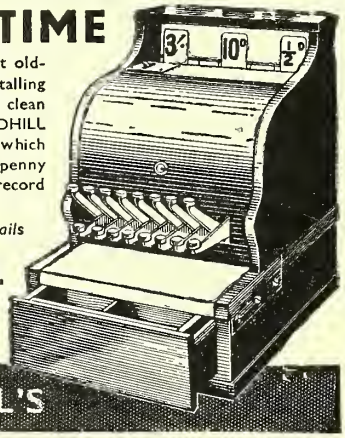

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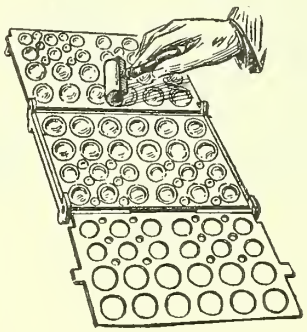

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VOL. 126. NO. 2981 MARCH 27, 1937

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News of the Week

National Pharmaceutical Union By-Election

The following is the result of the by-election held in North-Eastern Division 2 to fill the vacancy on the Executive Committee caused by the death of Mr. H. Gilleghan:—

HESELTINE, THOMAS	153
Eaddie, Walter	102

Voting papers issued, 390; returned valid, 255 (none invalid). Percentage of returns, 65.4. Mr. T. Heseltine will hold office for the remainder of the term for which the Executive Committee was elected, till March 31, 1938.

An "Emergency" List of Drugs

The supplement to "The British Medical Journal" of March 20 contains the following announcement:—

"A list of drugs necessary for the civil population in a national emergency—which being interpreted means war or stoppage of imports—was forwarded by the Ministry of Health for comment by the [Insurance Acts] Committee [of the British Medical Association]. The list was of surprising extent, numbering 160 preparations. It had been sent to a member of the committee who is an acknowledged expert on pharmacy, Mr. Lewis Lilley, and he had suggested some additions and deletions. A further letter from the Ministry stated that only those drugs had been included which would be generally agreed as quite essential. This would exclude drugs of the adjuvant class and those the use of which was in more or less an experimental stage. Moreover, only one representative member of a class of drugs having somewhat similar action was mentioned as absolutely essential. The feeling of the Committee was that even so the list could be very drastically pruned, and that it might be a real service to suggest which drugs must be regarded as indispensable. The task of clarifying the list from this point of view was again committed to Mr. Lewis Lilley."

British Association of Chemists

THE annual dinner and dance of the British Association of Chemists, London Section, was held at the Waldorf Hotel, Aldwych, London, W.C.2, on Saturday evening, March 20, when about 120 members and guests spent an enjoyable evening. Mr. G. T. Gurr (chairman of the London Section), with Mrs. Gurr, presided. Among those present were Dr. J. Vangas Eyre, M.A., Ph.D. (president), and Mrs. Eyre, Sir Gilbert and Lady Morgan, Professor A. G. Green and Mrs. Green, Mr. W. A. Damon, Chief Inspector of Alkali, and Mrs. Damon, Mr. S. Reginald Price, Mr. and Mrs. Garland and Mr. and Mrs. H. J. Pooley, together with a representative gathering of members of the London Section. After the loyal toast had been honoured the toast of "The London Section" was given by Miss W. Wright (hon. secretary), who said the B.A.C. stood for the professional and economic welfare of chemists, as a body and as individuals. The Association's unemployment fund had paid out since its inauguration over £11,000 and has accumulated funds of £12,000. Dr. Eyre, in reply, said that, in visiting the various sections of the Association up and down the country, he had been much impressed by the vigour and steady growth of the organisation, which was performing unique and really helpful services to the works chemist. He congratulated the London Section on the lead they were giving, which was being so well responded to in the provinces.

Proprietary Articles Trade Association

We have been advised of the following alterations to the Protected List of the Proprietary Articles Trade Association, 43 Gordon Square, London, W.C.1:—D.D.D. Co., Ltd.—D.D.D. Prescription (Irish Free State), 1s. 6d. each ; 13s. 6d. dozen. Forhan's, Ltd. (Agents: Stemco, Ltd., Albert Street, N.W.1.).—(1937 Year Book correction.) Forhan's original dentifrice for massaging gums and cleaning teeth, 1s. 3d. each, 10s. dozen ; 2s. 6d. each, 20s. dozen. Forhan's Tooth Paste, 6d. each, 4s. dozen ; 1s. 3d. each, 10s. dozen ; 2s. 6d. each, 20s. dozen. Window display terms applicable to both lines: —2½ per cent. on 30s.; 5 per cent. on £3 ; 7½ per cent. on £6, and 10 per cent. on £10 parcels.

Sessional Events

The tenth annual dance of the Hull Pharmaceutical Students' Association was held at Field's Restaurant, Hull, on February 26. Mr. R. G. Archer and Mr. R. Holder (social secretary) were M.C.s, and among those present were Mr. R. H. Watson (president, Hull Chemists' Association) and Mrs. Watson ; Mr. and Mrs. B. Surfleet ; Miss M. Stansfield (president, Students' Association); Mr. B. Foster; Mr. B. Linsley and party; and Mr. B. Johnson and party.

An address by Miss H. Bruce, B.Sc., of the Vitamin Department of the Pharmaceutical Society, on "Vitamins from the Pharmaceutical Viewpoint" created much interest at a meeting of the Thames Valley District Pharmacists' Association on March 9. Miss Bruce traced the early history of vitamins and the experimental work that had been done on the subject. The assay and uses of the various vitamins was fully explained. The lecture was illustrated with lantern slides.

At the White Hart Hotel, Bromley, a gala dance on behalf of the Benevolent Fund of the Pharmaceutical Society was held by the West Kent (Bromley) Branch recently. Between the dances various competitions and side-events were patronised. As a result, the Branch was able to make a contribution of over £11 to the fund. Special credit should be given to Mr. V. S. Leather, who was mainly responsible for the arrangements.

The annual social evening of the Torquay and District Branch was held at the Victoria and Albert Hotel, Torquay, recently. The evening was devoted mainly to dancing, and prizes were awarded for novelty dances. A whist drive was also arranged, the prizes being distributed by Mrs. Godfrey (wife of the chairman). A cabaret show was staged as a surprise item. The secretarial duties were excellently carried out by Mr. H. W. Bayne, while Messrs. Heyes, Williams and Godfrey were capable M.C.s.

Inquests

At a Rishton inquest on March 13, Mr. Douglas Schaefer, chemist and druggist, gave evidence to the effect that he supplied a woman with salt of lemon. He asked her what it was for and she replied "For cleaning." The packet was duly labelled. The woman, Mrs. Nancy E. Smith, subsequently died from poisoning, and the verdict was "Suicide whilst of unsound mind." The coroner said the chemist had done nothing extraordinary. It was a normal purchase.

At Eccles, Lancashire, on March 19, an inquest was held on the body of Mrs. Holloway, Patricroft, who died in a local hospital from an overdose of an anæsthetic. Evidence by the hospital dispenser, Mr. D. J. Morris, showed that on the day before the operation he was asked to supply a 1 per cent. solution of procaine hydrochloride for the anæsthetic. What he actually supplied was a 1 per cent. solution of percaine hydrochloride. The coroner said it was easy to be wise after the event and feel like censuring the dispenser, but they must remember the extenuating circumstances. The patient was in a serious condition of health, and without some surgical interference one could say her expectation of life was very limited.

The Manchester city coroner held an inquest, on March 12, on the body of Frances E. Clayton, Didsbury Road, Heaton Mersey. The widower, Fred Clayton, said that on February 5 a tin weighing three-quarters of a pound fell from a shelf and struck his wife on the temple. On the following Saturday, his wife told him that she had taken some sedative tablets and she did not want him to disturb her. Next day she was still sleeping, and he called in a doctor. His wife was taken to Manchester Royal Infirmary but never recovered consciousness. Mr. Harri Heap, the city analyst, said that he examined certain organs of the dead woman. He found a small amount of barbitone, but the amount recovered was not sufficient to prove that it had caused death. He did recover enough to be in a position to say that the woman had taken barbitone. The Coroner: People very often go to a chemist instead of a doctor. Could a chemist have given her this drug?—He could not legally sell her this preparation unless she had a note authorising him to give it to her. It may be that she had something of this kind in the past and kept it by her?—Until quite recently one could buy it by just asking a chemist for it. Lately it has been restricted. Mr. Heap said that if only 3 gr. or 4 gr. of the drug were found one felt rather diffident about stating that it actually caused death, but in certain states of health a small amount would accelerate death. After medical evidence, the coroner said he would return a verdict in accordance with the evidence, that the woman had died as a result of poisoning by the drug. There was nothing to suggest that she had intentionally taken her own life.

Birmingham

A meeting of the Birmingham and District Branch of the Pharmaceutical Society was held at the Grand Hotel, Colmore Row, on March 16, when Mr. H. N. Linstead (secretary and registrar of the Pharmaceutical Society) addressed the Branch on "Medicine-stamp Duty and other Topical Questions." The attendance was the largest for some years. Mr. Linstead summarised medicine-stamp duty history since 1783. The apothecary of 1783 was, he said, represented by the chemist and druggist of 1937. The intention of the early Medicine Stamp Acts was to impose a tax on "quack medicines" and to exempt medicines regularly prescribed by the medical profession or freely sold by chemists. The Act of 1812 provided that medicines "known, admitted and approved" in the treatment of human ailments should be exempt from tax when sold by chemists and doctors, even if recommended for the treatment of human ailments. Mr. Linstead said that the following bodies were in agreement regarding the evidence put before the Committee:—The Pharmaceutical Society, the National Pharmaceutical Union, the Scottish Pharmaceutical Federation and the Wholesale Drug Trade Association. It was felt that a favourable case could be made that as the chemist was used by the State for the purposes of the Dangerous Drugs Acts, the National Health Insurance Acts, and the Pharmacy and Poisons Act, he was entitled to special consideration. Four members of Parliament who were thoroughly conversant with the position of the chemist had offered to serve on the Committee, but were not accepted. Publication of the report had obviously been hastened by pressure from the Treasury, and bore unmistakable evidence of having been drafted by people who did not fully understand the problem.

The Committee were undoubtedly unfriendly towards the chemist. The recommendations amounted to a sales tax of 16⅔ per cent. upon every article held out as having medicinal virtues. The tax would fall on such common medicines as ammoniated tincture of quinine, cod-liver oil, ipecacuanha wine and Glauber's salt if their uses were stated on the label. The effect would be that directions for use would be omitted from labels with inconvenience if not danger to the public. Medicines made up on customer's request by the chemist for simple ailments ; taxable medicines prescribed by a doctor undiluted ; tooth-pastes, soaps and confectionery, if there were any suggestion that they had medicinal virtues, would all be taxed. The Pharmaceutical Society, the National Pharmaceutical Union, the Scottish Pharmaceutical Federation, the Wholesale Drug Trade Association and other representatives of wholesale druggists had decided upon the following course of action:—A request to the Chancellor of the Exchequer to receive a joint deputation ; a similar request to the Commissioners of Customs and Excise ; a meeting of members of Parliament at the House of Commons to be addressed by speakers on behalf of pharmacy ; arrangements for representatives of the Branches of the Pharmaceutical Society and of the N.P.U. to interview individual members of Parliament. Questions were put by Messrs. Blore, Martin, Walsh, Izon, Cox, Gardner, Grosvenor, Marshall and Southerton, to which Mr. Linstead replied. Alderman J. Poole proposed a vote of thanks, and Mr. H. H. Marshall seconded.

Exeter

A meeting of the Devon Branch of the National Pharmaceutical Union was held at Exeter on March 10, Mr. A. J. Merrifield

in the chair. Mr. A. W. Atkinson (a member of the Executive) gave a lecture on "Current Pharmaceutical Topics." He spoke of the early days of the P.A.T.A., and how different business behind the counter was in those days from to-day. Medicine licences, in ten years, rose from 60,000 to 155,000. This meant that many tradespeople were trying to get some of the chemists' business. It was for this reason that the Chemists' Friends scheme was inaugurated by headquarters. It had proved a great success in the first year, and some fifty manufacturers on the list were satisfied with the progress made. Mr. Atkinson also spoke on the Select Committee's report and the Shops (Sunday Trading Restriction) Act, 1936. Many questions were asked and answered. Mr. P. F. Rowsell proposed a vote of thanks.

Liverpool

A plea for a new Food and Drugs Act was made by Professor W. H. Roberts, the Liverpool city analyst, in the course of an address on March 18. Professor Roberts said that while gross adulteration had largely gone, certain other forms of adulteration and "sophistication" were coming in. It was time the Government passed an Act that would enable either its own department or some other body appointed by the Ministry of Health to define what certain foodstuffs should be.

On St. Patrick's Day, the staff of Ayrton, Saunders & Co. (Dublin), Ltd., visited the works and laboratories of the parent company in Liverpool. The visitors, who were conducted round, soon found themselves fraternising with the Liverpool operatives and comparing notes. The party, which with guides numbered ninety-two, became the guests of the English company for the day, and luncheon was served at Reece's Café. A pleasurable drive around the Wirral Peninsula occupied the afternoon, and tea was served on arrival at Chester. The evening was spent in true Saint Patrick's Day style with impromptu songs and Irish dances. The cheers which greeted speeches made by directors of the Irish and English companies showed the fraternal feeling existing.

London

At Marylebone Police Court, on March 17, Heinz Max Leipman (31), Dorset House, Marylebone, was sentenced to six months' imprisonment for being in unlawful possession of "dangerous" drugs.

At a meeting of the Wimbledon and District Pharmacists' Association and Branch on March 2, Mr. J. E. Saunders, F.Z.S., gave an address entitled "Snapshotters' Blunders and the Way to Cure Them." He demonstrated many of the errors made by amateur photographers and showed many small "gadgets" by which they could be overcome. At the close of his address he exhibited several excellent slides of animals. A vote of thanks was proposed by Mr. Sparks.

A considered judgment was delivered at Bow Street Police Court, on March 17, by Sir Rollo Graham-Campbell, in a case (which has occupied several hearings) in which William Tame, New Street, W.C., was summoned for having sold "table vinegar non-brewed" which was stated to consist of "artificial" vinegar. The magistrate said that the sole question he had to determine was whether it is permissible to sell as vinegar a substance which is not malt vinegar and which is non-brewed. There could, he thought, be no doubt that since the early part of the seventeenth century the commodity ordinarily sold in this country as vinegar was the product of fermentation, and that it was not until about the year 1890 that the fluid they were considering made its appearance on the market, although possibly there may have been isolated cases in which it was sold as vinegar as far back as 1860. He had come to the conclusion that it is not permissible to sell as vinegar or table vinegar a substance which is not the product of fermentation. A fine of £5, with £26 5s. costs, was imposed. It is stated that an appeal is to be made.

The annual supper-dance of the Western Pharmacists of London has become an established and highly popular institution. This year it was held at the Criterion Restaurant on March 18, and the revels continued well into March 19. The attendance is usually in the neighbourhood of 200; and on this occasion it was evident that the efforts of the social secretary (Mr. Frank Noble) and his coadjutors (notably Mr. Clifford Evans) had been successful in producing an evening's entertainment even above the recognised Western standard. Besides an excellent dance band, a cabaret performance was provided, which was novel, interesting and amusing. At the supper (which would have put many a "dinner" to shame) the president of the Association (Mr. P. D. Goodwin) proposed the only toast, "The King"; at his table were two councillors, Mr. A. R. Melhuish and Mr. W. S. Howells, and one potential councillor, Mrs. J. K. Irvine. Supporting were Mr. and Mrs. C. A. Noble, Mr. and Mrs. David T. Jones, Mr. Vivian C. Hewlett, Miss Melhuish, Mr. G. A. Tocher, Mr. and Mrs. Leslie Killingback, Mr. and Mrs. William Chalmers, Mr. and Mrs. B. R. Wilkinson, and a host of other members of the Western and other associations and their friends.

The Fates appeared to conspire against the success of the Silver Jubilee dinner and dance of the North London Pharmaceutical Association, but the evening of March 17 proved that all difficulties had been surmounted. Circumstances compelled a change from the date originally fixed; then the president (Mr. G. A. Steel) fell ill and was unable to be present, while illness likewise overtook Mr. H. N. Smith, who had agreed to propose one of the toasts. Nevertheless swift rearrangements and loyal team-work overcame all the bludgeonings of chance, and the result was an attendance well up to the average. The vice-president (Mr. G. A. Tocher) and his daughter (Mrs. Rose) received the guests (over 150 in number) at the Connaught Rooms, W.C.2, and under Mrs. Tocher's genial guidance from the chair all went well. Dr. C. H. Hampshire (deputising for Mr. Smith) proposed "The Pharmaceutical Society" in an able and humorous style, stressing the way in which the Society had fulfilled the educational ideals of its founders. In his reply, the president of the Society (Mr. Thomas Marns), was happy, friendly and unconventional. The proposer of the toast had covered the ground so well, he said, that there was nothing left for him except to remind the company that more anxious times than ever were developing for pharmacy and that a Council election was coming along in the near future. In that connexion he asked for their suffrages, particularly for their secretary (Mr. Herbert Skinner). He understood that one Councillor was not seeking re-election. This made a vacancy which he would very much like to see filled by a woman pharmacist, and as a well-known and very able lady pharmacist (who was present that night) was a candidate, he asked all present to spare one of their votes for Mrs. Irvine. This was obviously a sentiment popular with the audience. Mr. W. S. Howells, in an amusing speech, proposed "The North London Association," tracing its history from its inception to its high position in present-day pharmaceutical life. The Association was the outcome of long walks and talks in Highgate Woods between Mr. Skinner and Mr. Tocher (whom he referred to as the "Babes in the Wood"), and Mr. Howells effectively showed the influence of their meditations on the development of pharmacy during the past twenty-five years. In his reply Mr. Tocher was brief and modest. Telegrams of congratulation were read by Mr. Skinner from the South-West London Association and from the Liverpool Association on the attainment of the Silver Jubilee, and there was a message from Mrs. Tocher, who was absent through illness. Thereafter dancing was kept up vigorously until midnight. The musical entertainment deserves special mention; the artists were Miss Rosa Alba, Miss Jessie Broughton and Mr. Dennis Creedon. Various prizes were presented for prowess in sport and for luck in "spot" dancing. In the sports section the Victor Ludorum cup was secured by Mr. W. Hargreaves and the replica by Mr. J. Deas.

The company included, besides those already named, Mrs. Marns, Mrs. Howells, Mrs. Skinner, Mr. Andrew, Mr. and Mrs. David T. Jones, Mr. and Mrs. Irvine, Mr. Vivian C. Hewlett, Mr. W. B. Falding, Mr. P. D. Goodwin, Mr. and Mrs. William Chalmers, Mr. P. Sparks, Mr. and Mrs. Downing, Mr. W. A. Knott, Mr. and Mrs. Hearle and Mr. Clifford Evans.

Manchester

Councillor S. Taylor, F.N.A.A., of Thos. Tomlinson & Son, chemists' valuers, 33 Blackfriars Street, Manchester, 3, has been returned unopposed for the south ward of the Marple Urban District Council.

A social evening arranged by the local Branch of the Pharmaceutical Society was held at Winn's Café on March 18. This had been arranged in lieu of the smoking concert held annually in aid of the Benevolent Fund of the Society. Mr. J. H. Franklin (chairman), in appealing for support on behalf of the Fund, said that however much they might criticise some of the actions of the Society, one could but admire the manner in which the Benevolent Fund was administered. If every member of the Society annually contributed 2s. 6d. or 5s., it would

place the Fund in a position to help even more of the necessitous cases reported. The collection taken at the meeting realised £7 6s., and other contributions will be added.

An effort made jointly by the local Branch of the Guild of Public Pharmacists and the Junior Branch of the Association in aid of the Benevolent Fund was reported by the treasurer of the Junior Branch (Mr. A. E. Thorpe). He submitted a balance sheet showing that they had been able to raise £36 5s. for the Fund. Mr. R. Thompson (chairman of the Guild Branch) presented a cheque for that amount to Mr. Franklin to be forwarded at the same time as the proceeds of the social ensuing. He eulogised the work done by the ladies of these committees, who had been able to raise over £5. Mr. Franklin suitably acknowledged these contributions. The entertainers were Messrs. J. Mason, Jack Morrison, Will Needham and Eric Plant.

Norwich

The Norwich Branch of the Pharmaceutical Society heard a lecture from Dr. W. H. Linnell (reader in Pharmaceutical chemistry, London University) on "Anti-gas" recently. Mr. W. J. Lacey (president) occupied the chair, and several doctors were present. Dr. Linnell said that statements in the "yellow" Press that gas masks being prepared for the public were no protection against toxic smokes were absolutely untrue. They were perfectly satisfactory in every way. It was useless to pretend that any protection could be given against a direct hit by any sort of bomb or shell, but the risk of direct hits was very small, not much more than the danger of being hurt in crossing a busy street. A well-devised scheme was in preparation to counter many of the ill effects of gas attack. The best place for a pharmacist was not in a decontamination squad, but in his own pharmacy. The new gas masks could be worn for three hours. If the decontamination squads were active, no gas attack would last long, and existence in a gas mask for an hour or two would probably be the outside limit that need be anticipated. The thanks of the Branch were expressed by Mr. J. F. Collin and Mr. A. E. Beeston.

The annual dinner of Norwich and District Branch of the Pharmaceutical Society was held on March 4 at the Thatched Restaurant, Norwich, when Mr. W. J. Lacey (chairman) presided, supported by Mr. Thomas Marns (president of the Pharmaceutical Society), Dr. T. Anderson (chairman, Norwich Branch, British Medical Association) and Mr. J. F. Collin (past-chairman of the Branch). Proposing "The Pharmaceutical Society," the chairman said it was founded nearly a century ago by men who were determined to elevate pharmacy. The responsibility of the Society was greater than ever, but its success depended largely upon individual effort. In reply, Mr. Marns said the Society would celebrate its centenary in 1941, and they hoped by then to have their new building in Brunswick Square, London. This was to provide a home for British pharmacy that would last at least as long as their present headquarters, in which the Society had begun its work. He had seen many changes during the fifteen years he had been on the Council. They were no longer a voluntary Society, but included everybody practising pharmacy. The Society's examinations were perhaps the fairest of any similar ones in the world. In their benevolent work they were handicapped by lack of funds. Mr. Collin, proposing "The Visitors," said people who used to go to the chemist to cure a headache, sore throat, or cough, now went more often to a doctor, heard what he had to say, and then came back to the pharmacist for the medicine. This was the ideal for which pharmacists had been working for years. Dr. T. Anderson, who replied, described the British Medical Association's scheme for the improvement of the medical service of the nation. This would affect chemists, giving them more work, both practical and clerical. Norwich was fortunate in its chemists. It was a great comfort when a medical man was busy to know that any error would be noticed and pointed out before it went further.

Nottingham

The annual dinner of the Nottingham and District Branch of the Pharmaceutical Society was held recently, Mr. F. Wilson Moulds presiding. The attendance exceeded 100. The toast of "The Pharmaceutical Society" was proposed by Mrs. W. Donaldson Wright. Mr. F. W. Adams (assistant secretary), in reply, said it was more than two years ago since the Council first approached the Air Raid Precautions Department and offered the services of the pharmacists in any department they thought desirable. It was not the Council's fault that pharmacists' services had not been utilised to any appreciable extent; he did not think it was the fault of anyone. Mr. C. E. Reynolds, submitting the toast of "The City of Nottingham," referred to the vast changes which had taken place in the city since 1894, when he had occasion to pay a visit. The Lord Mayor, responding, paid a tribute to the adequacy of the transport services. The toast of "The Nottingham and District Branch" was proposed by Mr. F. L. King, chairman of the Mansfield Branch, who said Nottingham was rapidly becoming the centre of pharmaceutical education. The chairman responded. Mr. F. A. Bates proposed "The Ladies," and Mrs. F. Wilson Moulds responded. "Our Guests" was toasted on the call of Mr. T. R. Burrows, and the response was given by Major J. Cohen.

Miscellaneous

WINE-LICENCE APPLICATIONS.—At the recent local Brewster Sessions, the application by the following chemists for wine off-licences have been granted:—Mr. J. Garbutt, Dagenham; Mr. H. Hall, Fleetwood; Mr. F. W. Hoyle, Pickering, Scarborough; Miss E. M. Thomas, Stoke-on-Trent.

NATIONAL HEALTH CAMPAIGN.—Local authorities in England and Wales have received a communication regarding the National Health Campaign to be undertaken by the Ministry of Health and the Board of Education in conjunction with the Central Council for Health Education by the local authorities and by associated voluntary organisations. The object of the campaign will be by modern methods of publicity to make the health services better known to the public, and to encourage more people to use them. In the communication sent out, the secretary of the Central Council explains that the campaign will occupy the period from October next to March 1938.

Scottish Notes

Aberdeen

The Aberdeen Pharmaceutical Association held its annual meeting in Gordon's College on March 12. Despite the stormy weather there was a good attendance under the chairmanship of the president (Mr. J. G. Mutch); and three new members were admitted. The meeting learned with regret that Dr. Tocher was unable to be present through illness. The annual report showed the Association to be in a healthy condition, and was adopted after discussion. Mr. G. L. Spence, convener of the education committee, gave a report of their work throughout the year and asked that the examination for the Petrie Trust bursary should be held early in April to allow of the presentation of the bursary and School of Pharmacy prizes before the School session closed. Mr. Elder, convener of the business interests committee, paid a tribute to the enthusiasm of his members and their good attendance at the many meetings. A new Dispensing Price List has been issued. The question of the medicine-stamp duty, trade boards and early closing during the summer months was remitted to the Committee for consideration and early report. Mr. Meldrum (treasurer) brought forward a healthy report showing a credit balance of over £100, with a further balance of fully £15 at the credit of the entertainment committee.

The president, on retiring, thanked the officials and members for their help during his three years in office, and moved the appointment of Mr. W. F. Hay as his successor, Mr. Spence seconding. Mr. Hay, in accepting, paid a tribute to the work done by Mr. Mutch. Mr. L. G. Spence was reappointed *Vice-President*, Mr. John Michie *Treasurer*, Mr. H. M. Dugan *Secretary*, with Mr. Mutch as *Auditor* and Messrs. Jas. Farquhar and M. K. Watt as members of the *Executive*. It was agreed to send a message of congratulation to Dr. J. F. Tocher on the honour of LL.D., which is to be conferred upon him by the Senatus of Aberdeen University at the forthcoming graduation.

Miscellaneous

HERIOT-WATT COLLEGE.—Dr. Landale has been appointed a member of the Pharmacy Advisory Committee of Heriot-Watt College, Edinburgh.

SUNDAY OPENING.—A correspondent writes: "In a tour of the pharmacies in a typical Scottish town this week, I found opinion strong that the amount of Sunday business done, except in times of epidemic, does not justify even one shop per area remaining open."

Irish Notes

Pharmaceutical Society of Ireland

The latest dates for making application to sit for the April examinations of the Pharmaceutical Society of Ireland are:—Tuesday, March 30 (Registered Druggist Examination); Monday, April 5 (Pharmaceutical Licence Examination); Monday, April 12 (Pharmaceutical Assistants' Examination). Applications must be lodged by 11 a.m. on the appointed dates.

Ulster Chemists' Association

The monthly meeting of the Executive Committee was held recently at 73 University Street, Belfast, the president (Mr. A. Steede) in the chair. Apologies for absence were received from Mr. John McDowell and Mr. A. E. Johnston. The secretary reported that he had received a letter from a member together with an empty bottle labelled "Tinct. Lobelia." The member pointed out that this, a poison within the meaning of the Act, had apparently been sold by an unauthorised trader, and suggested that appropriate action should be taken. The secretary stated that the bottle, with full particulars, had been sent to the secretary of the Pharmaceutical Society of Northern Ireland, who had intimated that the matter had been referred to the Home Office. Other matters of business were dealt with.

Dispensers' Association in the Free State

A well-attended and representative meeting to organise the pharmacists in the Free State holding Local Government appointments as dispensers was held at Jury's Hotel, Dublin, on March 17, Dr. M. O'Donnell (Castle Street, Dublin) in the chair. The attendance included chemist dispensers from Dublin, Dun Laoghaire, Galway, Ballina, Mullingar, Cork, Waterford, Kerry, Wexford, Clonmel, Kilkenny, and Limerick. Letters of apology for absence were received from Mr. M. Dempsey, Croom, co. Limerick, and Mr. Dore, Newcastle West. The position of pharmacist compounders and dispensers in the Free State holding public appointments was reviewed, and it was decided to form a Dispensers' Association, and to request the Department of Local Government to receive a deputation. Dr. O'Donnell was elected *Chairman* of the newly formed Association, with the following other officers:—*Vice-Chairman,* James McCormack, Wexford; *Treasurer,* T. Keawell, Dublin; *Secretaries,* W. Conyngham, Dublin, and John J. Sewell, Killarney. With these officers the following form the *Committee:* Miss C. A. Burke, Cork; W. J. Adamson, Ballina; F. Loughman, Clonmel; Thomas Byrne, Limerick; J. M. Huban, Athlone; M. Kennedy, Waterford; A. F. Collins, Rathfarnham; H. Knight, Dublin; M. Costello, Dublin.

It was agreed that the deputation appointed to wait upon the Department of Local Government should make representations to have a scale of salaries fixed for all dispensers; that part-time appointments be made whole-time; and that all dispensing appointments be made pensionable, as they were up to 1923. In the course of the discussion it was pointed out that many of the existing salaries paid to dispensers in the Free State had not been revised for the past twenty years, and that in some of the appointments recently advertised by the Local Appointments Commission the salaries offered were less than those paid twenty years ago for the same posts, despite the great change in the cost of living. It was agreed that the deputation to wait upon the Local Government Board should consist of the chairman, vice-chairman, treasurer, two secretaries, and Messrs. Adamson, Loughman, Collins and Costello. It was decided to hold a Committee meeting in Dublin.

Belfast

The chemistry and pharmacy students held their annual dance on March 17 in the Central Hall, Municipal College of Technology, Belfast. The function was well attended and most successful. There were several novelty dances, and prizes were given for birthday dance and heads and tails dance. Among the visitors were the principal of the College (Mr. D. H. Alexander, M.Sc.), Miss Maclaughlin (Head of the Domestic Economy Department), Mrs. E. Neville Browne, M.P.S. (London), and Mr. S. H. Forrest, Ph.C. (vice-president, Pharmaceutical Society of Northern Ireland). Mrs. Wren and Mrs. Fred Storey acted as hostesses. The Committee in charge of the arrangements comprised Professor H. Wren, M.A., D.Sc., Ph.D. (president), Messrs. R. E. Burrows, B.Sc., Ph.D., and Fred Storey, Ph.C. (vice-presidents), A. S. Callaghan, B.Sc., H. S. McCauley, T. Robinson, N. Miller, Ph.C., R. Spence, Miss R. W. Barry, B.Sc., Ph.C., and Mr. J. Bunting, Ph.C. (secretary). The decorations in the hall were executed by the day students under the direction of Mr. C. W. Young, Ph.C.

Dublin

A scientific and technical exhibition organised by the Committee of Science of the Royal Dublin Society to illustrate the scientific activities of laboratories and teaching institutions in the Irish Free State, was opened at Ballsbridge, Dublin, on March 18. There were sections dealing with zoology, applied biology, botany, engineering and physics. In the zoology section, a microscope made by Antony van Leeuwenhoek was on view. Derris powder and insecticides derived from it were a prominent exhibit in the applied biology section. The physics section included instruments for counting the molecules in a given volume of gas, for counting ions in the atmosphere, and for measuring the charge on an electron.

Topical Reflections

By Xrayser

Practically All Aspects

of the manufacture of perfumery have been dealt with in the *C. & D.* of March 20; I spent some time in reading the singularly interesting articles, which ranged from scented gloves to methods of selling perfumes. I have seen in my own experience of retail pharmacy the beginnings of the modern perfumery business. As an apprentice I handled a few of the flower perfumes such as white rose, frangipanni, millefleurs, heliotrope and stephanotis. These were put up in 1-oz. panelled bottles, capped with skin, with shield-shaped gold labels. The retail price was 1s. each. A few proprietary perfumes, also made from flowers, then made their appearance; these were followed by those of a heavy synthetic type, which enjoyed a considerable vogue for some years. With the war and a rise in the price of alcohol the perfume trade, contrary to expectations, developed considerably; so far as prices are concerned the level of these is little different now from what it was ten or fifteen years ago. Unfortunately the business is getting into hands other than those of the chemist: it is to be regretted that he has not been able to retain a business which is peculiarly his and which he should still retain, by reason of his scientific knowledge of the subject. The notes on "Selling Perfumes" (p. 352) are very practical, and sum up in a concise way considerable experience of the subject.

I Must Confess

to experiencing some disappointment when I read the address of a member of the Pharmaceutical Society's Council at a meeting held at Birkenhead (p. 322). Remembering the enthusiasm and persistence which Mr. McNeal showed in getting on the Council after several attempts, and his statements regarding what he hoped to do when he got there, I had expected he would tell us what he had attempted. He has apparently realised the inertia of the Council and the difficulty of the new-comer in making any impression upon it; he even posed as an apologist for it and admitted its limitations. A speaker at the meeting summed up the situation pretty accurately. He said that in London pharmacists were walking on air, while in the North they were walking on the earth. He went on to say, what I have often said in this column, that if they got increased dispensing from the dependants of N.H.I. wage earners, it should be at satisfactory fees, or they could not pay their assistants' wages. It is no use to get increased work if it is not profitable; far better to develop the business side of the calling and, ignoring the ethical side, go all out for whatever will bring in a satisfactory income.

Legal Reports

Pharmacy and Poisons Act (Northern Ireland), 1925.—At Lurgan Petty Sessions, on March 16, Edward McCann, William Street, trading as E. McCann & Co., was summoned by the Ministry of Home Affairs of Northern Ireland for unlawfully displaying the word "druggist" on a certain article, when in fact he was not a registered druggist within the meaning of the Pharmacy and Poisons Act, 1925. Mr. J. P. Best, Crown Solicitor, prosecuted, and Mr. C. W. Neill, solicitor, pleaded "Guilty" on behalf of the defendant. Mr. David Moffatt, an inspector from the Ministry of Home Affairs, gave evidence of a visit he paid to the defendant's shop in William Street, Lurgan, on February 18. To all intents and purposes, he said, it was a chemist shop, and there was a window display labelled "Edward McCann, Chemist and Druggist," although the defendant was in no way qualified to hold himself out as such. The witness purchased a bottle of cream of magnesia, and found the offending words on the printed label. In reply to Mr. Neill he admitted that the word "chemist" was part of the design of the label. Mr. Neill explained that the labels were supplied with the words printed on them, and the defendant was trying to use them up. He had not the slightest intention of misleading the public. He (Mr. Neill) understood that the defendant had since scored the word "Druggist" out of his window display. The Magistrate: He must also remove the word "Chemist." The defendant said his shop was not really a druggist shop; it was "a perfumery." He agreed to enter into an undertaking that there would not be a repetition of the offence. He was fined 20s., with 20s. costs.

Pharmacy and Poisons Act, 1933.—At the West Ham Police Court, London, on March 11, Henry Walker Darley, Rathbone Street, Canning Town, described as a druggist and surgical instrument maker, was summoned at the instance of the Pharmaceutical Society for having unlawfully sold tablets containing ephedrine on premises not registered for its sale and not under the supervision of a registered pharmacist. Mr. A. C. Castle, prosecuting, said the defendant had no pharmaceutical qualification. Evidence of purchase was given. The defendant pleaded that he acted in ignorance; the packets were not labelled "Poison." The magistrate imposed a fine of £3, with £2 costs, for selling on premises not duly registered. The other two summonses were dismissed under the Probation of Offenders Act.

At Huddersfield, on March 11, Robert L. Shaw and Eleanor Shaw, executors of the late Mr. S. T. Shaw, chemist, James Street, Golcar, were prosecuted by the Pharmaceutical Society for selling a substance containing poison when not authorised; for permitting the sale of poison when not under the supervision of a registered pharmacist; and for selling poison which was not in a container duly labelled. Mr. H. L. Thackwray appeared for the Society, and the defendants were represented by Mr. J. D. E. Smith. There was a plea of "Guilty" on each summons. Mr. Thackwray said that in October last an inspector of the Pharmaceutical Society visited the defendants' branch shop in Peel Street, Marsden. He noticed there was no certificate, and found that the only person in charge of the shop was an apprentice. A test purchase was made at this branch shop of the defendants, and it was alleged that the youth supplied the "customer" who was sent there with Dr. Collis Browne's Chlorodyne. Mr. Smith said that Mr. S. T. Shaw died in October 1935. The executors were not then acquainted with the business, but they had been learning their lesson very quickly throughout the past year. The defendants were in that position because the youth failed in his trust. On the first charge the defendants were fined £10, on the second £5, and on the third £10.

At the South-West London Police Court, on March 20, Mr. P. R. Lewis, Union Road, Clapham, S.W., was summoned for unlawfully using in connexion with his business the descriptive name "pharmacy." Evidence was given by Marjorie Marrable, an inspector of the Pharmaceutical Society. Mr. A. C. Castle, for the prosecution, said the defendant carried on a business in selling druggists' preparations, mostly of a harmless nature. The defendant, on oath, said he had been in business five years. He was given to understand that the old labels in stock could be used up if the word "pharmacy" was gummed over. It was quite an unintentional happening that the word was not covered on the packet sold. The summons was dismissed under the Probation of Offenders Act.

Trade-Mark Applications

(From "The Trade Marks Journal," February 24, 1937)

Design of phœnix and serpent; for glucose and halibut liver oil preparations and seidlitz powders (3). By Goodall, Backhouse & Co., Ltd., White Horse Street, Leeds. 567,107. (Associated.)

"DANAL"; for medicated oils (3). By M. Spitzel, 37 Golden Square, London, W.1. 573,024.

"SPRAYOFAN"; for inhalants for asthma (3). By "Asthmosana," R. M. Mayer, 2 Luitpoldstrasse, Bad Reichenhall, Germany. 573,251.

"UNIPAX"; for medicinal tablets for rheumatism (3). By Universal Formulas, Ltd., Howard Street, Belfast. 573,290.

"BRASSILIUM M.T."; for medicinal chemicals (3). By F. E. Coe, 37 Manchester Street, London, W.1. 573,332.

"JEPSIN"; for medicinal chemicals (3). By E. Lee, 11 Holland Hill, Singapore. 573,709.

"PLASTULES"; for medicinal chemicals (3). By J. Wyeth & Brother, Ltd., Oldhill Street, London, N.16. 573,932.

"GRECOSA"; for medicinal grape sugar, glucose and dextrose (3). By Pure Grape-Sugar (Dextrose) Manufacturing Co., Ltd., 7 Hyppocrates Street, Athens. 574,160. (Associated.)

"HAPPY LANDINGS"; for medicated salts for treating human feet (3). By McClure, Young & Co., Ltd., 90 Standard Road, Park Royal, London, N.W.10. 574,515.

"SMOO"; for medicinal chemicals (3). By R. H. Corbett, Cross Lanes, Wrexham, N. Wales. 574,549. (Associated.)

"GEEDODAR"; for medicinal chemicals (3). By R. G. Davies, 21 George Street, Pontypool, Monmouthshire. 574,675.

Design of Weathercock; for surgical instruments unmedicated (11). By Harman & Ellens, Queen Street, Astwood Bank, Redditch, Worcestershire. 573,399.

"PARAPPA"; for surgical instruments, unmedicated (11). By G. L. Barron, 25 Shore Road, London, E.9. 573,235.

"SPRO"; for all goods (48), excluding solidified alcohol compounds. By Aspro, Ltd., Basildon House, Moorgate, London, E.C.2. 571,632. (Associated).

"JOURDON" with crown design; for perfumery, etc., excluding soap (48). By M. West, 71 Brentham Way, Ealing, London, W.5. 573,256.

"WONNA"; for all goods (48). By Société des Produits Scientifiques de Beauté "Vonna," 119 Rue Saint-Maur, Paris (XIe). 573,374.

"SEAGIFT"; for perfumed toilet preparations (48). By W. V. Hutchinson, 34 Paternoster Row, London, E.C.4. 573,893.

(From "The Trade Marks Journal," March 3, 1937)

"PROCELLOID"; for all goods (1). The Paint Corporation, Ltd., Albion Chambers, Small Street, Bristol. 574,266. (Associated.)

"POULTMURE"; for fertilisers from dried ground poultry manure (2). By The Pioneer Poultry Manure Co., The Hill, Alresford. 573,284.

"GOBLIN"; for disinfectants, excluding soap (2). By British Vacuum Cleaner & Engineering Co., Ltd., Parsons Green Lane, London, S.W.6. 573,802. (Associated.)

"REINOL"; for disinfectants and deodorants (2). By T. S. Whittle, 19 Lloyd Street, Manchester. 574,311.

"VEGITAMIN"; for veterinary chemicals, etc. (2). By T. D. Morson, 80 High Road, Wormley, Hertfordshire. 574,726.

"STRETONITE"; for disinfectants (2). By Industrial & Commercial Detergents, Ltd., High Path, Merton, London, S.W.19. 574,931.

Figure of athlete with torch; for all goods (3). By Nuhealth Herbal Remedies, Ltd., Newarke Street, Leicester. 572,770.

"YANSAN"; for medicated inhalant for catarrh. By Lacvit Co., 10 Market Street Lane, Blackburn. 574,129.

"SANIPAK"; for all goods (3), excluding toilet paper. By E. Taylor, Ltd., Monton Fields Road, Monton, Lancs. 574,442.

"PICRAGOL"; for medicinal chemicals (3). By J. Wyeth & Brother, Ltd., Oldhill Street, London, N.16. 574,544.

"HEMOGENOL"; for medicinal chemicals (3). By Les Laboratoires Dausse S.A., 4 Rue Aubriot, Paris, France. 574,594.

"GESTONA"; for medicinal chemicals (3). By Warrick Bros., Ltd., 6 Nile Street, City Road, London, N.1. 573,934.

"AZENE"; for photographic paper (39). By Harper & Tunstall, Ltd., 36 Red Lion Square, London, W.C.1. 574,860.

"VIGORINA"; for perfumery, etc., excluding liquid bath water preparations (48). By Noury's Pharmaceutical Laboratories, Ltd., Armour House, St. Martin's-le-Grand, London, E.C.1. 569,765.

"LITTLE AUDREY"; for perfumery, etc. (48). By Hygienic Brands, Ltd., 43 Springfield Road, Moseley, Birmingham. 574,540.

"ENOZONE"; for perfumery, etc. (48). By J. C. Eno, Ltd., 160 Piccadilly, London, W.1. 574,543. (Associated.)

Company News

P.C. means Private Company and R.O. Registered Office

EXILITY PRODUCTS, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists, druggists, perfumers, photographers, opticians, etc. R.O.: 63-4 Chancery Lane, W.C.2.

FRANCIS & CO. (BURNLEY), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of chemists and druggists, opticians, etc. John Brown, 43 Ormerod Road, Burnley, director.

GAMWELL & PINDER, LTD. (P.C.).—Capital £500. Objects: To carry on the business of analytical, manufacturing and pharmaceutical chemists, etc. Mrs. Nellie Gamwell, 5 New Street, Ardsley, Barnsley, director.

LONDON DRUG CO. (HENRY COLE), LTD. (P.C.).—Capital £500. Objects: To carry on the business of chemists, druggists, etc. Adelaide S. Collins, F.B.O.A., 1 Well Hall Parade, Eltham, S.E.9, director.

D. R. COLLINS, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of wholesale and retail manufacturers of perfumes, creams and powders, etc. Douglas R. Collins, 17 Russell Square, Brighton, managing director. R.O.: 4 Whitehorse Street, W.1.

COMPLAC LABORATORIES, LTD. (P.C.).—Capital £3,500. Objects: To carry on the business of manufacturers of beauty culturist preparations, etc. Robert Bushby, 19 Nevern Place, South Kensington, S.W., director. R.O.: 316 Vauxhall Bridge Road, Westminster, S.W.

CHAS. H. WINDSCHUEGL, LTD. (P.C.).—Capital £35,000. Objects: To acquire the business of a dealer in drugs, chemicals, oils and essences carried on by Chas. H. Windschuegl at 1 Leadenhall Street, E.C. Chas. H. Windschuegl shall be permanent governing director.

ZERMOPAD (OVERSEAS), LTD. (P.C.).—Capital £10,000. Objects: To carry on the business of manufacturers of and dealers in the commodity known as "Thermo-compound," minerals, herbs, medicines, appliances and other goods, etc. The first directors are to be appointed. Solicitors: A. Wood & Co., 4 Queen Victoria Street, E.C.4.

LONDON PRODUCTS (TOZANA), LTD. (P.C.).—Capital £2,000. Objects: To acquire the business of a manufacturer of perfumes, soaps, bath salts and toilet preparations and requisites, chemist, etc., carried on by Joseph H. Deacon at 59 Salusbury Road, Kilburn, as "London Products Co." Joseph H. Deacon, 59 Salusbury Road, Kilburn, N.W.6, director. R.O.: 59 Salusbury Road, Kilburn, N.W.6.

JOHN H. ROBSON & CO. (MANUFACTURING CHEMISTS), LTD. (P.C.).—Capital £5,000. Objects: To carry on business as wholesale and retail manufacturing chemists and druggists, food manufacturers, etc. John H. Robson, "Zeelac House," Percy Gardens, Tynemouth, Northumberland, and Thos. H. Humble, "Tynevale Cottage," High Street, Newburn, Northumberland, directors. R.O.: "Tynevale Works," High Street, Newburn.

BRITISH COANDA DEVELOPMENTS, LTD. (P.C.).—Capital £30,000. Objects: To acquire from Societe Anonyme d'Etudes des Brevets et Procedes Coanda and Henri Coanda a licence in respect of certain British Empire Patent Rights, and to carry on the business of manufacturing, research and general chemists, dealers in all kinds of chemical products, etc. The first directors are to be appointed. Solicitors: Slaughter & May, 18 Austin Friars, E.C.2.

A. L. ARNOLD (PROVINCIAL CONCESSIONS), LTD. (P.C.).—Capital £2,000. Objects: To acquire from A. L. Arnold & Co., Ltd., the sole and exclusive concession for the contracting and sales rights in agreed localities of the products manufactured by them for (*inter alia*) the extermination of rats, mice, cockroaches, beetles, and ants, etc. James M. P. Denny and Laurence J. Gilbertson, addresses not stated, directors. R.O.: 17 Plough Court, Fetter Lane, E.C.4.

WATSONS CHEMISTS (HULL), LTD. (P.C.).—Capital £200. Objects: To carry on the business of chemists, druggists, etc. R.O.: 105 Greenwood Avenue, Hull.

J. & E. ATKINSON, LTD.—Net profit of £37,428 for 1936 (against £26,695 for 1935). The dividend on the ordinary shares is raised from 3½ per cent. to 5 per cent. and £20,000 (against £14,597) is transferred to reserve, leaving £7,045 to be carried forward (against £7,617). Excluding interest in subsidiary companies, floating assets amount to £128,695, compared with current liabilities, including dividend requirements, of £87,192.

SIR ERNEST SANGER, J.P., L.C.C., chairman of Sangers, Ltd., has resigned from the board. Sir Ernest, in a statement to the Press, says that he has tendered his resignation for personal reasons. He states that prior to the formation of the company, as one of the senior partners of the business founded by his family over 150 years ago, he always exercised a personal influence on the policy of the business, but since the formation of the company his influence has become much restricted and diminished, and for this reason he has decided to take the course of resigning his directorship.

EVANS SONS LESCHER & WEBB, LTD.—The twelfth ordinary general meeting of shareholders was held at Liverpool. Mr. J. Herbert E. Evans (chairman of directors) presided, and in the course of his speech said: Export trade has always been an important and integral part of our business; we have devoted much time and attention to its development, and we know our markets from personal contact. During recent years we have taken all steps within our power to preserve and consolidate our connexion. We have strengthened our representation and organisation to bring it as far as possible in accord with present-day conditions. Higher rates of wages to conform with the increased cost of living: increasing cost of much of the material employed in the handling and distribution of our products, and in service to our customers generally all take their toll, and require the constant vigilance of the directors if they are to be kept within bounds. The subsidiary companies have made progress in their activities. Having regard, therefore, to all the circumstances, your directors feel that the accounts presented to you for 1936 (*C. & D.*, March 13, p. 302) are reasonably satisfactory, and provide good promise for the future, both from a revenue and a capital point of view. The laboratories which we built in 1928 were constructed to afford facilities for biological research and, with accommodation already existing, the production of those articles already perfected, and which were likely in the near future to result from this research. So successful have we been in this work that the existing accommodation has proved inadequate, and it has therefore become necessary to erect and equip additional buildings if the work already initiated is to develop. When they are completed, in the course of the next two or three months, we shall be the proud owners of what we believe will be the finest biological laboratories in the country. It is our endeavour by a creative policy to use our world-wide connexion for the production and the introduction of the newer remedies evolving from scientific investigation. It is a satisfaction to feel that we are thus able to do our share in the advancement of medicine and in the alleviation of disease, and as time goes on you will enjoy the full benefit of the increasing research work which we are carrying out, not only at Evans' Biological Institute, but also at our pharmaceutical laboratories and fine chemical works. The chairman apologised for the absence, owing to indisposition, of Mr. T. Edward Lescher, and in expressing the regret of the directors in the resignation of Mr. H. E. Webb, who has been a director of the company since its inception, said: "The name of Webb, father and son, has been held in respect in the drug trade throughout the world for many years, and we regret the fact that it is now removed from our directorate. You will, I am sure, join with me in the hope that Mr. Webb's health may be restored so that he may be able to enjoy his enforced retirement." Mr. E. P. H. Lescher, son of our managing director, has been appointed a senior director. The report and accounts were unanimously adopted and the retiring directors were re-elected.

Pharmaceutical Society of Northern Ireland

Council Meeting

THE monthly meeting of the Council was held in the Society's headquarters, 73 University Street, Belfast, on March 19, the president (Mr. S. Gibson) in the chair. The members present were Messrs. J. E. Connor, S. S. Badger, J. W. Gray, J. McDowell, W. C. Tate, J. T. Nicholl, W. Martin, J. C. Glendinning, J. McGregor, C. Abernethy, Professor James Small and Professor E. C. B. Mayrs. Mr. D. L. Kirkpatrick (secretary) was in attendance. Apologies for absence were received from Sir Thomas McMullan and Messrs. I. Parker, S. H. Forrest, H. F. Moore and J. F. Grimes.

CORRESPONDENCE

The secretary of Queen's University forwarded a letter he received from the registrar of Dublin University in which the registrar said it had come to the knowledge of his authorities that the Pharmaceutical Society of Ireland had abolished its own Preliminary examination and had refused to accept in its stead the Matriculation examination of any university in the world, Queen's and Trinity College included, except the National University of Ireland.

THE SECRETARY said the whole system in Dublin had been changed. The Preliminary examination now consisted of Irish, Latin, English, mathematics and one other subject; chemistry and botany were taboo. The Council decided that the letter should be marked "read."

Reference was made to a report that a chemist's stock had been sold in the open market, and it was decided to ask the Ministry to make inquiries into the allegation.

FINANCE COMMITTEE

The minutes of the Finance Committee, which were adopted on the motion of MR. MARTIN, seconded by MR. CONNOR, provided for the purchase of £500 3½ per cent. Conversion Loan.

ELECTIONS AND NOMINATIONS

MR. GRAY proposed, and MR. MCDOWELL seconded, that the following nominated candidates be elected as members of the Society:—Joseph Anderson Swenarton, Castledawson, co. Londonderry; Victor Mills Wilson, 143 Woodstock Road, Belfast; James Maginnis, Tandragee, co. Armagh; Hugh Gray Campbell, Church Street, Ballymoney; Robert Cleland McCullough, 18 Ward Avenue, Bangor; John Buchanan, 30 Marlborough Street, Londonderry.

On the motion of MR. ABERNETHY, seconded by MR. GRAY, the following candidates were elected students of the Society:—Miss Hannah Isobel Whiteman, 1 Hamilton Road, Bangor; Miss Mary Elizabeth Maguire, 14 Ratcliffe Street, Belfast; Cecil Raymond Whitcroft, 7 Indiana Avenue, Belfast; William Henry Adams, 39 Tate's Avenue, Belfast; Daniel Leo McArdle, 3 Cliftonpark Avenue, Belfast; John Joseph Ward, 3 Cliftonpark Avenue, Belfast.

MR. TATE proposed for nomination Mr. Samuel Orr, Greencastle Street, Kilkeel, and Mr. William A. Loughran, 105 Fitzroy Avenue, Belfast.

OTHER BUSINESS

The motion standing in the name of MR. BADGER that a sum of £21 be subscribed to the Royal Victoria Hospital Extension Fund was passed.

MR. MCDOWELL asked if the Council could do anything in regard to restricting the number of openings of pharmacies.

THE SECRETARY said that was a point which had been raised before, and the Ministry said that nothing could be done which would restrict the liberty of the subject. There was restriction of the number of openings in Continental countries, but a new Act would be required if the same system was to operate in Northern Ireland.

MR. MCGREGOR said publicans had a certain amount of protection from their licences.

THE SECRETARY said the number of apprentices coming in was greatly reduced. The number of entries for the examination up to the time of speaking was not half the number that used to come forward.

MR. MCDOWELL said druggists were being replaced by herbalists.

THE SECRETARY undertook to raise the matter with the Home Office.

Dublin Photographic Dealers

THE annual meeting of the Dublin Branch of the Photographic Dealers' Association was held on March 9, Mr. G. A. McLean Lee, M.P.S.I. (chairman), presiding. There was a representative attendance, including Messrs. Lyall G. Smith (secretary), P. A. Brady (treasurer), John Smith, J. J. Roche, A. J. Donnell, E. MacMahon, J. A. Campbell, G. O'Neill, F. J. Roche, P. D. Larkin, Drogheda; J. F. Costello, Galway; Alex. Boles, A. B. Smith, T. C. Scott, R. L. Hanna, P. McGrath, Miss K. Deevy, and Miss M. E. Malone. THE CHAIRMAN said it was his melancholy duty to propose a vote of sympathy with the relatives of the late Mr. Eugene MacSweeney, Cork. For many years Mr. MacSweeney, who was secretary of the Cork Branch of the P.D.A., was a man well known and respected throughout Ireland and England. The motion was passed in silence, all members standing. Reviewing the work of the committee for the past year the chairman said they had twelve meetings, and numerous subcommittee meetings and conferences with the Finishers' Association. During the year the Branch held a second exhibition, and while it was not up to the first from the point of view of entries, it was well up to it in interest and the standard of the work submitted. For the next exhibition some change would have to be made in the rules so that the amateur would not be in competition with the professional photographer. In conjunction with the exhibition they held a social evening which proved so successful that the experiment was likely to be repeated. At the last general meeting a suggestion was made by Mr. Hudson that their committee should get in touch with the Irish Drug Association, to see if that body could take steps to fix a minimum price for and D. and P. That meeting was held, but the I.D.A. found the proposal that they should fix prices impracticable. The Committee next concerned itself with the question of forming a Finishers' Association. Thanks to the interest and activity taken by Mr. Eugene MacMahon in the matter, this Association was brought into being.

MR. P. A. BRADY, submitting his report, stated that the income for the year was £29 17s. 3d., and expenses £27 11s. 5d., which left a balance of £2 5s. 10d. During 1936 the branch had 210 paid-up members.

On the motion of MR. SCOTT, seconded by MR. O'NEILL, the treasurer's report and statement of accounts were adopted.

Mr. P. McGrath and Mr. J. J. Roche were elected to fill the two vacancies on the Committee, the retiring members of which were all unanimously re-elected on the motion of MR. SCOTT, seconded by MR. O'NEILL.

MR. R. L. HANNA drew the attention of the meeting to a gift scheme brought into force by prominent Irish cigarette manufacturers.

THE CHAIRMAN said the supplying of cameras for cigarette coupons was not so bad, as it resulted in film sales for the dealers. Supplying films for coupons was a serious matter. It was decided to leave the matter in the hands of the Committee to take such action as they thought fit.

MR. JOHN SMITH addressed the meeting on the work of the National Council of the P.D.A. (of which he is a member) during the past year. The Council were very grateful to Dublin for what it had done in this way to increase interest in photography. He was glad to say they were likely to have a very successful season this year, and would have lectures.

MR. DONNELL moved a vote of thanks to the chairman, the secretary and treasurer.

Science Papers at Edinburgh

For the fifth meeting of the present session of the North British Branch of the Pharmaceutical Society, held at 36 York Place, Edinburgh, on March 19, a programme of three papers was arranged. Mr. David Ritchie gave a

Note on Eusol

[Abstract]

An analyst reported a sample of eusol deficient in boric acid. No standard for boric acid content could be found in any of the usual reference books, but "The Extra Pharmacopœia" (18th ed.) states that eusol "contains 0.27 per cent. of hypochlorous acid, together with small amounts of calcium biborate and calcium chloride." Eusol was first suggested by Lorrain-Smith and co-workers at Edinburgh University, whose original article ("British Medical Journal," 1915, 2, 129) stated that when the solution was prepared to the formula: Chlorinated lime 12.5 gm.; boric acid 12.5 gm.; water 1 litre, it contained 0.54 hypochlorous acid, 1.28 per cent. calcium biborate and 0.17 per cent calcium chloride formed according to the equation

$$CaOCl_2 + 2H_3BO_3 = 2HClO + CaB_2O_4 + CaCl_2 + 2H_2O.$$

Later it was shown by McCrae that with 1.25 per cent. of bleaching powder containing 36 per cent. of available chlorine it was impossible to obtain a concentration of 0.54 per cent. of hypochlorous acid. The original workers had assumed that the normal weight of HClO was 52.5 gm., whereas the acid, when viewed as an oxidising agent, had a normal weight of ½ HClO (26.25 gm.). In all subsequent reference the concentration of HClO was given as 0.27. The originators intended a solution of hypochlorous acid. If excess of acid was used the acid formed was decomposed into chlorine and water. Boric acid had acidity enough to liberate hypochlorous acid without decomposing it into free chlorine. Theoretically, 1.25 of boric acid when combined with the bleaching powder should give 1.27 gm. of calcium biborate, and this appears to have been the assumption of the originators. An attempt was made to estimate the boric acid content of eusol. It was found that the hypochlorous acid affected the indicators and it was necessary to add sodium thiosulphate, before titration, to neutralise. This had no effect upon the estimation. Taking the formula of calcium biborate as CaB_2O_4 it was found that there was 0.4 per cent. boric acid in the combined state and 0.586 per cent. free boric acid in eusol made to the B.P.C. formula. Similar results were obtained from other samples. The total free and combined boric acid was therefore 0.986 per cent., corresponding to a loss of about 20 per cent. Another method of making eusol was tried. The requisite amount of bleaching powder was rubbed down, transferred to a flask and made up to the required volume. The solution was shaken and allowed to stand over night. It was then filtered, a clear solution of calcium hypochlorite obtained, and the boric acid shaken in until dissolved. The solution remained clear for a short time but soon became cloudy and a white precipitate was formed which was found to be calcium biborate. In the usual method of preparing, the calcium biborate would be filtered out, thus accounting for a loss of boric acid. Another series of experiments was carried out in order to determine the loss of boric acid after the mixture of bleaching powder and boric acid had been allowed to remain in contact in the solution for different periods of time. After shaking ten minutes and filtering, the loss of boric acid was 17 per cent.; after shaking ten minutes and allowing to stand over night, 20 per cent.; and after shaking ten minutes and allowing to stand four days, 30 per cent. The increasing loss on standing was accounted for by reaction with the free calcium hydroxide of the bleaching powder, with the formation of calcium biborate. "It will be seen, therefore," said the speaker, "that eusol is unsuitable as a test prescription for boric acid content." In preparing eusol in accordance with the B.P.C. directions it was found more satisfactory to rub down the acid with water to a smooth paste and then add it to the solution of bleaching powder. It was found that eusol prepared in this way and filtered after ten minutes, instead of after several hours as directed by the B.P.C., contained 0.47 per cent. of available chlorine and 1.035 per cent. of boric acid. The solution was in every way as satisfactory as that prepared by the B.P.C. directions. (The work was carried out in the laboratories of Duncan, Flockhart & Co., Edinburgh.)

(*To be continued*)

Kaolins Examined

The principal monograph in a recent issue of "The British Medical Journal" (3976) is a discussion of "Medicinal Kaolin in Food Poisoning," by Dr. N. Mutch. The author's comparison of the samples of kaolin used by him in his investigation is of considerable pharmaceutical interest; and his recommendation that kaolins and allied substances shall not be assayed in terms of some dye is important from a therapeutical standpoint. He gives the following analytical table:—

Clay	Al_2O_3	SiO_2	Fe_2O_3	CaO	MgO	Loss on ignition	Ratio Si : Al (Theoretical 1·04)
Kaolin B.P. ...	36·16	46·92	0·28	1·49	0·89	12·81	1·14
Kaolin B.P. ...	38·15	44·67	0·27	1·01	0·25	13·17	1·03
Collosol kaolin ...	36·84	48·13	0·23	0·68	0·05	13·60	1·16
Kaolin (Kaylene)...	35·63	46·18	0·47	0·84	0·50	14·00	1·14
Osmo-kaolin ...	38·46	46·47	0·12	0·51	1·20	13·22	1·06

Twelve samples of B.P. kaolin were purchased from various retail and wholesale houses. With one solitary exception their grit content was so high as to be detectable by grinding the clay between the teeth. Three medicinal kaolins sold under registered names were free from any comparable amounts. All the B.P. clays were of the flocculated variety contaminated by uncompensated electrolytes so that when suspended in water they settled out rapidly into a sticky coagulum conducive to the formation of intestinal concretions. The three special clays, however, became peptised when water was added, and therefore remained in suspension with relatively little tendency to throw down any plastic deposit. These three kaolins were selected for further survey, also two samples of B.P. kaolin bought from important wholesale houses and therefore representative of the kaolin furnished for dispensing purposes to a large section of medical practitioners and retail chemists.

Gritty Matter Present

A certain amount of gritty matter could be obtained from every sample of kaolin by the following method. The clay was mixed with water and peptised completely by the addition of sodium pyrophosphate. The full physical dispersion of the kaolin secured by this means liberated small grits which had been entangled by the clay; these quickly separated out as a sandy deposit. This granular debris contained much amorphous matter, made up of conglomerations of kaolinite encapsulated in humus derived from the water used in the preliminary elutriation processes carried out at the mines. These were resolved by destroying the humus with nitric acid. The kaolin and grit were then separated by repeptisation with pyrophosphate, and the finally deposited grits were examined under the microscope. The B.P. kaolin yielded a relatively high proportion of grit and the other kaolins comparatively little. The author gives details of the microscopical examinations of various samples, and of his results in testing for adsorption with several alkaloids, mussel poison, muscarine, solanine acetate, histamine phosphate, and dried tetanus toxin. Similar experiments were tried with kaolin in paraffin emulsion.

Dr. Mutch points out that many of the failures of indiscriminate kaolin therapy may be ascribed to the use of preparations which either contain gritty contaminants or tend to coalesce into sticky masses. He also calls attention to "the impossibility of deducing the therapeutic potency of an adsorbent from an estimation of its ability to adsorb some arbitrarily chosen dye."

Trade Notes

TOOTHBRUSH OFFER.—Duke Pharmaceutical Co., Ltd., 123 Duke Street, Liverpool 1, have issued their Dentaid toothbrush mounted on a card together with a dental pencil intended for removing stains, tartar, etc. It may be used for either natural or artificial teeth.

SUN GOGGLES.—Merx Optical Co., Ltd., New House, 67-8 Hatton Garden, London, E.C.1, advertised in last week's issue sun goggles which they supply in all varieties and at varying prices. They are packed in cartons and are obtainable from leading wholesale houses. Wholesale and export inquiries only should be directed to the company.

VAREEN LIQUID NAIL POLISH in various colours is obtainable from Vareen, Ltd., 86 Portobello Road, London, W.11. Supplies of Vareen products, among which are included nail polish, polish remover, cuticle cream, cuticle remover, and nail white pencil are obtainable from the usual wholesalers.

MONSANTO CHEMICALS, LTD., will shortly complete a considerable extension to their synthetic phenol plant. This is interesting in view of the suggested shortage of this product.

LANALOL HAIR FOOD.—Lanalol, Ltd., 57-60 Holborn Viaduct, London, E.C.1, announce that an extensive national advertising campaign is about to be launched to promote the sale of Lanalol hair food. This product is issued in two forms: oily and non-oily. It is packed in 4-oz. bottles and cartoned. Prices are fixed, and supplies may be obtained from all wholesale houses on generous terms. Large quantities may be obtained direct. A showcard is supplied free with orders of two dozen and over.

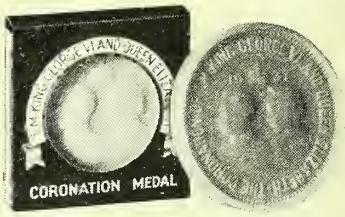
SURGICAL APPLIANCES.—Jefferson & Son, Eton Road, Woolwich, London, S.E.18, announce that they are the sole proprietors of Hernicura trusses and surgical appliances. Information concerning sole district rights may be obtained on application.

DODD'S KIDNEY PILLS.—The Merchandising and Service Corporation, Ltd., Hatton Garden, London, E.C., announce the introduction of a small size of Dodd's kidney pills. An intensive advertising campaign is about to start, and further details of propaganda work may be obtained on application.

CATHETER LUBRICANT.—Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool, have introduced Zant antiseptic catheter lubricant which is intended for catheters, sounds and cystoscopes and for digital examinations. This product is also suggested as an emollient for nurses' hands. It is issued in tubes of 4 oz.

MANUFACTURERS AND THE REPORT.—An enterprising step has been taken by Smith's Advertising Agency, Ltd., 100 Fleet Street, London, E.C.4, in publishing a *résumé* of the evidence given before the Select Committee on medicine-stamp duties. The summary in question has been compiled from the verbatim reports which appeared in THE CHEMIST AND DRUGGIST and which are duly acknowledged. The brochure is offered free on application to Messrs. Smith's Agency.

ATTRACTIVE SOAP PLAQUES.—The Vinolia Co., Ltd., Bebington, Cheshire, have sent us specimens of an attractive Coronation soap medal which they have struck from new Vinolia soap. These tablets carry reproductions of the heads of the King and Queen. This Coronation medal is available either in special printed carton or transparent wrapper in boxes of one gross. Any reader who is interested will receive a specimen on application to the manufacturers.



GLASSWARE.—The United Glass Bottle Manufacturers, Ltd., 40-43 Norfolk Street, London, W.C.2, advertised in last week's issue some of the pots and bottles for toilet preparations produced by them. They invite inquiries as to packaging problems. —Wood Bros. Glass Co., Ltd., Barnsley, advertised exclusive glassware for cosmetics and perfumery.—Lax & Shaw, Ltd., Albert Glass Works, Hunslet, Leeds, 10, advertised bottles of various descriptions. New moulds are available for customers' own designs.

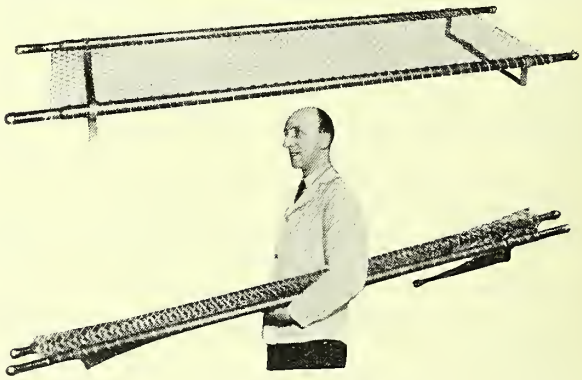
CORONATION PACK.—Illustrated on this page is a special Coronation pack of Meggeson's acid drops, one of a series at present available. A special bonus of thirteen to the dozen on six dozen lots is at present in operation. The outer is printed in red, white and blue, and the pack carries an announcement that Meggeson & Co., Ltd., Llewellyn Street, Bermondsey, have been in business during the reigns of eight kings and queens, the names of which are given.

CHANGE OF ADDRESS.—Philip Shrank, Ltd., manufacturers and importers of chemists' sundries and all surgical rubber appliances, announce their removal on March 22 to more commodious premises at 280 High Holborn, London, W.C.1.

MORGAN'S POMADE.—The Marie Antoinette Co., Ltd., 1-7 Grenville Road, London, N.19, are advertising Morgan's pomade and Morgan's solidified brilliantine.

BOND'S DIGESTIVE POWDERS may be obtained either from the usual wholesalers or direct from Bond's Laboratory, Watford. It is stated that this product contains no sodium bicarbonate.

"CLYDEBUILT" STRETCHER.—Cockburn & Co., Ltd., 130 Howard Street, Glasgow, C.1, have sent us illustrations of their "Clydebuilt" stretcher, which is made entirely of metal and



is intended to supersede the usual canvas and wood stretcher, considered to be less satisfactory in regard to air-raid work. Further details may be obtained from the manufacturers.

Students' Competition

Conducted by H. Dryerre, Ph.D., M.R.C.S., L.R.C.P.

March Problem

IDENTIFY the powder supplied, which is an organic substance appearing in the British Pharmacopœia monographs. Express your opinion as to its purity according to the "Tests for Purity" as outlined in the B.P.

Deaths

CURRIE.—At Cambridge, on March 17, Sir James Currie, K.B.E., C.M.G., aged sixty-eight. While principal of the Gordon College, Khartoum, Sir James Currie took a leading part in the establishment of the Wellcome Tropical Research Laboratories, with which the late Sir Andrew Balfour was also associated.

FALDING.—At 5 Sussex Place, South Kensington, London, S.W.7, on March 22, Edith Mary Falding, eldest daughter of the late Mr. John Falding, of Wakefield, and beloved sister of Mr. Walter B. Falding, chemist and pharmacist, South Kensington.

GRIMES.—At "Maryville," Carysfort Avenue, Blackrock, co. Dublin, on March 18, Mr. Henry Cox Grimes. Mr. Grimes represented Evans Sons Lescher & Webb, Ltd., Liverpool, for over forty years in Ireland, which had been his home for a long period. Although enjoying a well-earned retirement for five years past, he was remembered with regard by a large circle of friends, and many messages of sympathy from chemists reached his relatives. The interment took place on March 20, and was largely attended. Evans Sons Lescher & Webb (Ireland), Ltd., were represented by Mr. W. Rowland Such (managing director), Mr. P. J. Moran, Mr. T. E. Whelan, Mr. T. H. Jones, and Mr. T. J. Staunton.

ISLIP.—At Leeds, recently, Mr. Frank Islip, M.P.S., for a long period a director of Reynolds & Branson, Ltd., manufacturing and retail chemists, aged sixty-eight.

MOORE.—Recently, Mr. William Arthur Moore, chemist and druggist, 229 Mitcham Road, London, S.W.17. Mr. Moore qualified in 1896.

PRYSOR-JONES.—Recently, Mr. David Prysor-Jones, chemist and druggist, 291 Park Road, Liverpool, aged sixty-one.

RAMSAY.—Recently, Mr. William Sinclair Ramsay, chemist and druggist, Edmonton, London, N.18. Mr. Ramsay qualified in 1928.

RANKINE.—Recently, Mr. Andrew Landale Rankine, chemist and druggist, Willington Quay, Northumberland. Mr. Rankine qualified in 1903.

RICH.—Recently, Mr. Edward Thomas Rich, chemist and druggist (Rich, The Chemist, Ltd., 30 High Street, Swansea). Mr. Rich qualified in 1904.

ROBERTS.—At 89 Trentham Road, Dresden, Longton, Stoke-on-Trent, on March 8, Hannah, wife of Mr. T. Roberts (T. Roberts (Chemists), Ltd.).

Personalities

MR. K. H. EMELEUS, M.P.S., Battle, Sussex, has been elected a member of the committee of the local chamber of commerce.

MR. G. TURTON GREEN, M.P.S., Henley-on-Thames, has been elected the representative of Nettlebed on the Oxfordshire County Council.

MR. PHILIP F. ROWSELL, member of the Pharmaceutical Society's Council, has been reappointed an alderman of the Devon County Council.

MR. H. BRUCE CHAMBERS joins the representative staff of D. Mawdsley & Co., 2-6 Riga Street, Hanover Street, Shudehill, Manchester, 4, on March 30.

MR. R. J. TROUGHTON, managing director of R. J. Troughton (Chemists), Ltd., Conisborough, the present vice-chairman of the local urban district council, is seeking re-election to that body on April 3.

MR. GEORGE H. HANNAM, M.P.S., contributes an interesting article to the current number of "The Tonic" (the magazine of the Leicester School of Pharmacy) under the title of "Why I Quitted Pharmacy."

LORD LEVERHULME has been invited by Bebington Council, Cheshire, to allow his name to be included as Charter Mayor in a draft Charter of Incorporation which the Council is submitting to the Privy Council.

MR. J. R. HORN, M.P.S., Goldthorpe, Doncaster, has been elected a member of the new Dearne Urban District Council. Mr. Horn was some years ago a member of the Bolton-on-Dearne Urban District Council, one of the authorities which the new urban council replaces. Also successful in the same election was Mr. J. W. Bedford, a local chemist's assistant.

"AIRPORT," a two-reel 16-mm. documentary film, scenario and direction by Ellis E. Somake, photographed and edited by Mr. Leopold Barnato, M.P.S., was judged "the most efficient production viewed" in the "Amateur Cine World" the ten best films of 1936. This film was also awarded a certificate in the Royal Photographic Society Exhibition of Cinematography, 1936 (Class 3). Mr. Barnato, who is manager for Mr. C. Woollons, M.P.S., Hendon, London, N.W.4, filmed a two-week cruise in the liner "Strathmore" last year for the P. & O. Steamship Co.

MR. HARRY H. ATHERTON, M.P.S., who has succeeded Mr. Ralph Pickup as president of the North-East Lancashire Branch of the Pharmaceutical Society, is a native of Blackburn. He served his apprenticeship with Mr. A. Taylor, Blackburn, and later was assistant to Mr. F. Walker, Darwen. After passing the Pharmaceutical Society's Qualifying examination in 1928 Mr. Atherton held a position as manager of the business of the late Mr. R. Read, Thorne, Yorkshire, before, three years ago, becoming manager to Alderman W. H. Grimshaw, J.P., at Higher Audley. Mr. Atherton is a keen golfer and tennis player, and takes an interest in cricket and football. He is also fond of horticulture and is an amateur photographer.

MR. H. H. ATHERTON, M.P.S.

BRO. CHARLES H. MAILE (Menley & James, Ltd., London, E.C.1), was installed W.M. of Earl Roberts Lodge No. 3151, on March 16. Among those present were W.Bro. J. A. Kenningham, P.G.St.Br., W.Bro. A. A. Kenningham, B.Sc., P.P.G.D. (Surrey), and Bro. H. Warburton, M.P.S.

Recent Wills

MR. ALBERT JOHN ANCLIFFE, 240 Mawney Road, Romford, Essex, chemist and druggist, who died on May 11 last, aged fifty-four, left estate gross value £2,050, with net personalty *nil*.

MR. WILLIAM ARTHUR MOORE, 14 Furzedown Market, Tooting Junction, London, S.W., chemist, who died on January 14 last at Sunbury, left estate gross value £5,395, with net personalty £5,331.

MR. CHRISTOPHER WALTER PEACH, 62 Westbourne Road, Marsh, Huddersfield, formerly of Fairfield, Victoria Park, Manchester, chemist, who died on December 7 last, left estate gross value £2,825, with net personalty £1,697.

MR. CECIL JAMES SADLER, J.P., Oswald House, Durham, chairman of Sadler & Co., Ltd., chemical works, Middlesbrough, who died on December 19 last in London, aged sixty-eight, left estate gross value £64,554, with net personalty £38,179.

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Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

M/23. Banana flour
F/23. Barkola Compound
P/23. Belosan radium cream
M/22. Calsoda
K/53. Importers of Japanese metal pump sprays
B/22. Stimudent tooth picks
C/22. Tangana tea

THE
CHEMIST AND DRUGGIST
VOL. CXXVI. March 27, 1937 NO. 2981

The Report and its Repercussions

The correspondence columns of The Chemist and Druggist, since comment was directed to what was described as "This Unjust Report," show in no small degree the interest and, what is perhaps more significant, uneasiness in the trade as to the result of the recommendations if they are carried into effect. The result of the recent meeting (*C. & D.*, March 13, p. 297) of representatives of the chief trade organisations to consider what steps were to be taken in the interests of pharmacy as a whole will be watched with much concern. An important point was raised by one of our correspondents, who stressed the need for action in differentiating between proprietary remedies and pharmaceutical preparations made to recognised formulas. The Select Committee obviously had no knowledge of the intricacies of the proprietary medicine trade, and it is to be hoped that the representatives of the organisations concerned are fully alive to one very important point: it is that proprietary remedies subject to tax are exempt from adulteration laws, whereas non-dutiable products must be of the nature, substance and quality demanded and controlled under the Sale of Food and Drugs Acts. A fact which should be driven home in presenting the case for pharmacy is that the primary purposes of the pharmaceutical qualifications are in effect to ensure the purity of drugs and medicines in conformity with pharmacopœial or other recognised standards. This point is to be made clear: manufacturing, wholesale and retail chemists are the actual makers of standard remedies on which the medical profession must rely. At the same time, the "known, admitted and approved" exemption was a safeguard that the public could be assured that the medicines bought over the counter were of a suitable standard of quality. It is, of course, not suggested in any way that manufacturers of the well-known proprietary articles which are now available to the public are adopting a standard below that which is actually required under the Sale of Food and Drugs Acts for recognised medicinal products. But in order to supply the Chancellor of the Exchequer with a greatly increased income, there is a possible danger that less desirable products will be put on the market and sold in small quantities by an enormously increased number of licensed sellers. One other point requires special emphasis; it is that legitimate pharmaceutical interests should be allowed to retain their rights in regard to known, admitted and approved remedies, and that standard formulas should not be liable.

It is indeed a quixotic situation that on the one hand the Ministry of Health and social service committees all over the country are endeavouring to maintain the health standard of the people at a higher point than at any time in the history of the country, whereas against that the Chancellor of the Exchequer is presumably willing to agree to self-medication on the part of the public using remedies which may or may not conform to the Food and Drugs (Adulteration) Act, 1928. A well-known daily newspaper has invited the views of 10,000 men and women on budget-framing as a means of raising additional revenue. The proportion of letters received in favour of taxing cosmetics was 61 per cent., but apparently there was no suggestion that medicines should be taxed. It is in no small degree an indication of the lack of knowledge amongst members of the public in regard to the incidence of taxation on the trade. It is, however, even a greater indication of the fact that members of the community have no desire to have their medicines taxed at all!

Money and its Makers

The gross receipts of the Inland Revenue during the financial year ended March 31, 1936, totalled £465,285,289, and the cost of collection, according to the seventy-ninth report of the Commissioners, was £8,821,416. This is 1·93 per cent. of the income, which, to our mind, is a very handsome brokerage. Those broadsheets, known officially as "Form No. 12A, Income Tax, Return of Income," and similar inquisitions and all that they involve, no doubt partly account for the high cost of collection. Perhaps the promised simplified forms for Income Tax and the introduction of sound commercial methods may lead to this expenditure being reduced to more reasonable limits. Of the total, Income Tax and Sur-Tax account for approximately £285,500,000, with Income Tax from Scotland, £12,629,650 and £1,707,700 from Northern Ireland. Death duties, of which there are seven classes, are the next biggest item, amounted to slightly over £88,000,000, of which only £9,131,000 was derived from Scottish estates. One other item of interest is Stamp Duties, which reached the surprisingly high total of £25,806,000; this does not include the three-quarters of a million obtained from the topical Patent Medicine Stamp Duty. Stamp Duties for 1931–32 totalled only £17,130,000, the increase of over £8,670,000 is a sure indication of the improvement in commercial and industrial conditions during the past six years. In 1931–32 joint stock companies registered numbered 8,841, compared with 13,921 in 1935–36. The estimated number of persons with incomes above the exemption limit in 1935–36 was 8,100,000, of which 4,750,000 were entirely relieved from taxation by operation of allowances, leaving the burden to some 3,350,000, who each paid on an average £70 17s. 1d. Assuming the population to be 45 millions, the average tax per head works out at about £5 5s. 6d., which is by far the highest in any country in the world.

A Potential Weapon

As will be seen in a news item on another page of this issue, a list of "drugs necessary for the civil population in a national emergency" has been compiled in the innermost recesses of the Ministry of Health and submitted to the Insurance Acts Committee of the British Medical Association, which in turn has handed it to "an acknowledged expert on pharmacy, Mr. Lewis Lilley." The list comprises at the moment 160 "preparations," and "a national emergency" is defined as "war or stoppage of imports." Pharmacists will be curious to learn more about the list than we are at present able to tell them. We have been unable to trace the name of Mr. Lewis Lilley in either the Registers of the Pharmaceutical Society of Great Britain or the General Index of the "Year-Book of Pharmacy"; and we infer that he is a medical man. While we do not question the right of the medical profession to limit their prescribing or to expand it, as the case may be, we have a suggestion to make that should commend itself to medical practitioners and pharmacists alike. When the list ushered into being with so much secrecy has undergone its final revision, it may well be put into force as a basis for National Insurance prescribing for an experimental period of six or twelve months. At the end of such a period the effect on the cost of panel medicine would be ascertainable.

Effect of Orpiment in Shellac Analysis

By Ernest J. Parry, D.Sc., F.I.C., and George W. Ferguson, Ph.D., A.I.C.

ORPIMENT, as is well known, is used to a considerable extent to vary the natural colour of certain grades of shellac. It does not, of course, really enhance the value of the shellac, since when the shellac is dissolved for use in the arts, the orpiment is filtered off, and the user employs the shellac in its natural colour.

One of us (E.J.P.), so long ago as 1903 (*C. & D.*, I, 175), showed that orpiment increased the iodine absorption value of shellac, and so tended to indicate a higher percentage of adulterating resin than was actually present. Where very minute quantities of orpiment are used, so that the iodine determination does not indicate more than 3 per cent. of resin—the market tolerance for [TN] shellac—this is not a matter of much practical importance. But in the case of fine orange lac, for example, where no resin is allowed, an iodine determination will frequently lead one to infer the presence of resin when none is there. This is a serious defect in the methods used in the United States in reporting on samples of shellac, and numerous samples of pure shellac have regularly been condemned as containing resin on account of an iodine value slightly in excess of normal.

Conditions for Iodine Determination

This mistake does not occur in London analyses, as the samples are first subjected to positive tests for the presence or absence of resin, and, when necessary, the orpiment is removed before the iodine determination is made. As an illustration—a very unusual one—of the length to which this possible error might go, we give the following.

In 1935, when a good many hurried shipments were made from India, there were cases of hurried and careless manufacture. A shipment of 100 chests was duly sampled and examined. We found it to contain 2 per cent. of resin. A delivery of twenty-five cases was made to a Government department and was accepted without demur. A second twenty-five cases were tendered and refused. In this twenty-five-case lot we found an iodine value indicating over 20 per cent. of resin. Further samples drawn from individual cases showed results indicating up to 40 per cent. of resin. The samples were found to contain varying, but very large, quantities of orpiment. When this was removed the shellac gave an iodine value of 12.5, indicating about 2 per cent. of resin.

This effect of orpiment, although disputed in the United States for many years, has now been accepted by United States chemists, and it has also been confirmed by Rangaswami and Aldis (Bulletin, Indian Lac Research Institute, Nos. 8 and 13, 1932). It has been shown by Schneider that the action of a solution of iodine in carbon disulphide upon precipitated orpiment is as follows:—

$$As_2S_3 + 6I \rightarrow 2\ As\ I_3 + 3S.$$

We have confirmed this observation gravimetrically. Furthermore, the following volumetric determinations of iodine absorption under these conditions supply confirmation of the course of the initial reaction:—

As_2S_3 used (mgm.)	Iodine value (mgm. I per 100 mgm. As_2S_3)	Atoms I per mol. As_2S_3
10·0	333	6·46
20·0	329	6·38
30·0	314	6·09

The reaction products are completely dissolved in the carbon disulphide.

For the moment we make no comment on the decline in iodine value corresponding with the rise in the amount of arsenic sulphide used. This will be found to occur repeatedly in the determination of the iodine values by the Hübl and the Wijs methods.

Tests on Orpiment

At the outset we recognised that experiments on orpiment of commerce would necessarily be variable, as apart from the question of purity, considerable variation in particle size (and hence in the rate of reaction with the halogen) might also be expected, thus complicating the reaction. In the first series of experiments we studied the effect of Hübl's (iodine and mercuric chloride in alcohol) and Wijs' (iodine chloride in acetic acid) solutions on natural orpiment ground as finely as possible in a mortar, the following results being obtained after addition of potassium iodide solution and immediate titration of the residual free halogen with 0.1*N* sodium thiosulphate solution.

(1) HÜBL (10 c.c. of 0·15 *N*, 17 hours absorption)			(2) WIJS (20 c.c. of 0·2 *N*, 1 hour absorption)		
Wt. As_2S_3 (mgm.)	Iodine value	Atoms I per mol. As_2S_3	Wt. As_2S_3 (mgm.)	Iodine value	Atoms I per mol. As_2S_3
2·3	316	6·1	2·7	497	9·7
5·2	193	3·8	4·9	426	8·3
7·8	186	3·6	8·4	383	7·5
10·6	169	3·3	10·1	354	6·9
14·3	198	3·8	15·8	335	6·5
20·0	162	3·1	19·6	310	6·0
25·1	146	2·8	24·7	276	5·4
30·1	159	3·2	31·2	272	5·3

Two points emerge sharply from this series of determinations. First, that with slight exceptions there is a steady and large fall in the iodine value as the amount of arsenic sulphide is increased—ranging from about 6 atoms of iodine per mol. of As_2S_3 to 3 in the case of the Hübl determinations, and from 9 to 5 in the Wijs series. Secondly, to the fact that all through the series, the Wijs values give figures considerably higher than those obtained by the Hübl determinations.

It was noted that the natural orpiment failed to dissolve completely in the reagents under these conditions, so, in order to obtain the orpiment in a very finely divided uniform condition, H_2S was passed into an acid aqueous solution of pure arsenic trioxide, the resulting As_2S_3, after collection and washing, being dried *in vacuo* over sulphuric acid. This uniform, precipitated orpiment was then employed in the following experiments, in which the effect of the nature of the solvent and time of reaction were taken into consideration.

The action of Hübl and Wijs solutions under conditions similar to those used in the experiments with natural orpiment gave the following results:—

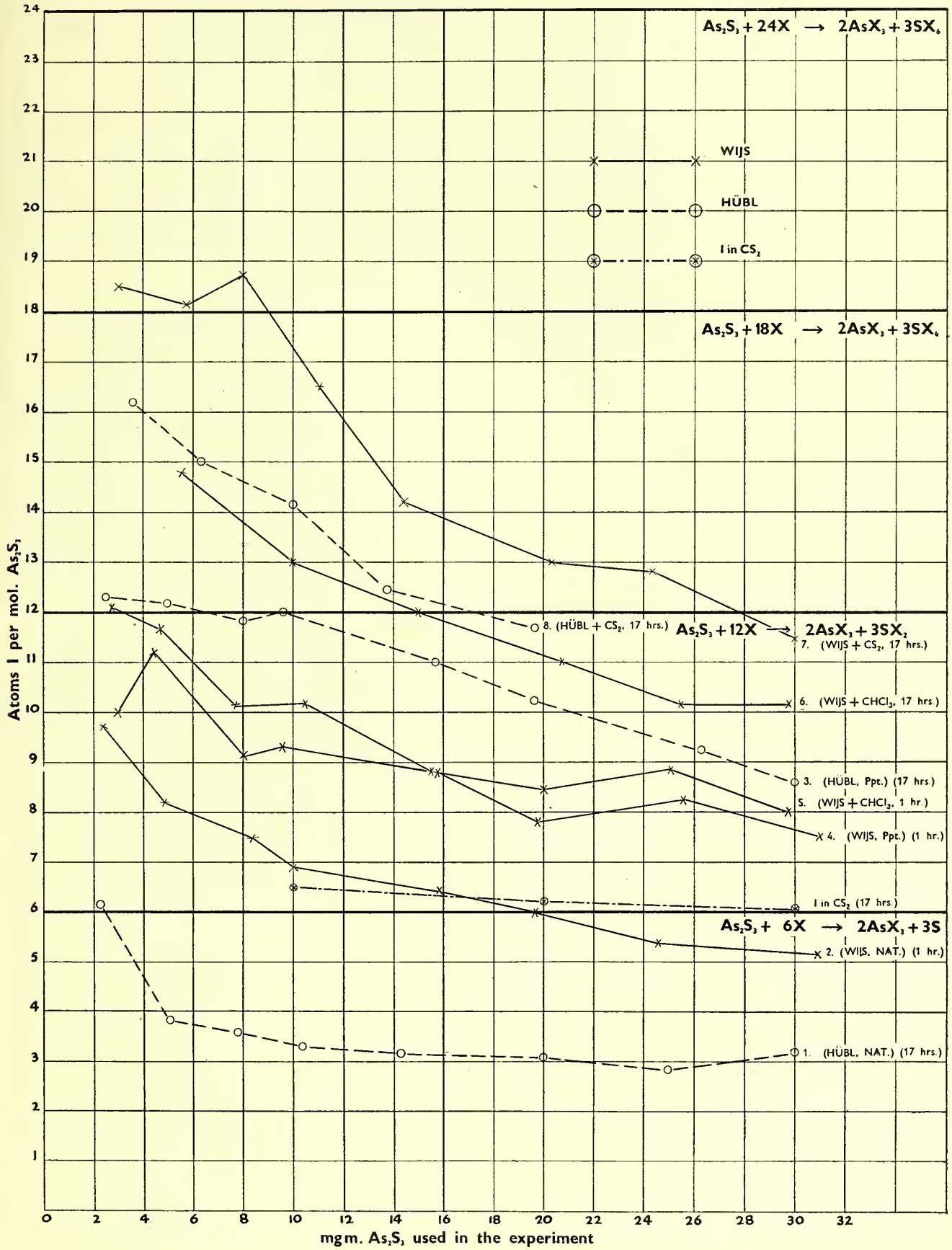
(3) HÜBL (10 c.c. of 0·15 *N*, 17 hours absorption)			(4) WIJS (20 c.c. of 0·2 *N*, 1 hour absorption)		
As_2S_3 (mgm.)	Iodine value	Atoms I per mol. As_2S_3	As_2S_3 (mgm.)	Iodine value	Atoms I per mol. As_2S_3
2·7	637	12·4	3·1	515	10·0
5·0	627	12·2	4·6	576	11·2
7·9	608	11·8	8·0	472	9·2
9·4	617	12·0	9·7	483	9·4
15·7	567	11·0	15·7	450	8·7
19·8	529	10·3	19·7	396	7·7
26·4	479	9·3	25·3	430	8·3
29·9	442	8·6	30·8	385	7·5

Secondary Reactions

The greatly increased halogen absorption indicates (1) the profound effect of the state of subdivision of the orpiment and (2) that secondary reactions occur due to the oxidation of the liberated sulphur by halogen. It was again noted that some yellow insoluble material was present in all the solutions, notwithstanding the presence of a large excess of halogen. This appeared to be roughly proportional to the orpiment used, and suggested that the attack on the latter by halogen might be hindered by the sulphur set free, which partly reacted with halogen, the remainder being deposited on the unattacked orpiment. To test this premise, and also the influence of time on the reaction, chloroform was added to the orpiment before the addition of the Wijs solution, the following results being obtained:—

(5) WIJS (20 c.c. of 0·2 *N*, + 10 c.c. $CHCl_3$ 1 hour absorption)			(6) WIJS (20 c.c. of 0·2 *N*, + 10 c.c. $CHCl_3$ 17 hours absorption)		
As_2S_3 used (mgm.)	Iodine value	Atoms I per mol. As_2S_3	As_2S_3 used (mgm.)	Iodine value	Atoms I per mol. As_2S_3
2·8	627	12·1	5·3	757	14·7
4·8	598	11·6	9·8	668	13·0
7·7	519	10·1	14·8	619	12·0
10·4	526	10·2	20·7	569	11·0
15·5	448	8·7	25·3	529	10·3
19·9	439	8·5	29·6	529	10·3
25·0	452	8·8			
29·7	410	8·0			

The general regularity of the results indicates the probable truth of these suggestions, further confirmation being supplied by the effect of substituting an equal volume of carbon disulphide for the chloroform used in example 6 above, and also


$As_2S_3 + 24X \rightarrow 2AsX_3 + 3SX_4$
WIJS
HÜBL
I in CS_2
$As_2S_3 + 18X \rightarrow 2AsX_3 + 3SX_4$
$As_2S_3 + 12X \rightarrow 2AsX_3 + 3SX_2$
$As_2S_3 + 6X \rightarrow 2AsX_3 + 3S$
8. (HÜBL + CS_2, 17 hrs.)
7. (WIJS + CS_2, 17 hrs.)
6. (WIJS + $CHCl_3$, 17 hrs.)
3. (HÜBL, Ppt.) (17 hrs.)
5. (WIJS + $CHCl_3$, 1 hr.)
4. (WIJS, Ppt.) (1 hr.)
I in CS_2 (17 hrs.)
2. (WIJS, NAT.) (1 hr.)
1. (HÜBL, NAT.) (17 hrs.)
Atoms I per mol. As_2S_3
mgm. As_2S_3 used in the experiment

studying the effect of its addition to the reaction with Hübl's solution. In this case the sulphur liberated should be completely soluble in the carbon disulphide, and the reaction should tend towards completion in the direction—

$$As_2S_3 + (6+3N)X \rightarrow 2AsX_3 + 3SX_N,$$

where X represents halogen and N=2 as a minimum (i.e., an iodine absorption of at least 12 atoms per molecule of As_2S_3). This is borne out by the following results:—

(7) WIJS (20 c.c. of 0·2 *N*, + 10 c.c. CS_2, 17 hours absorption)			(8) HÜBL (10 c.c. of 0·15 *N*, + 10 c.c. CS_2, 17 hours absorption)		
As_2S_3 used (mgm.)	Iodine value	Atoms I per mol. As_2S_3	As_2S_3 used (mgm.)	Iodine value	Atoms I per mol. As_2S_3
3·1	953	18·5	3·5	841	16·3
5·7	940	18·2	6·5	774	15·0
8·0	967	18·7	9·9	731	14·2
10·5	852	16·5	13·7	639	12·4
14·4	732	14·2	19·6	597	11·6
20·3	673	13·0			
24·5	660	12·8			
30·1	593	11·5			

The results showing the absorption of more than twelve atoms of iodine per mol. of As_2S_3 are probably due to the hydrolysis of SX_2, followed by its oxidation by the excess of free halogen according to the following equations:—

$$As_2S_3 + 12X = 2AsX_3 + 3SX_2 \quad (12)$$
$$SX_2 + H_2O = SO + 2HX \quad (12)$$
$$SO + X_2 + H_2O = SO_2 + 2HX \quad (18)$$
$$SO_2 + X_2 + 2H_2O = H_2SO_4 + 2HX \quad (24)$$

where X indicates iodine for convenience in the present discussion, and the figures in parentheses represent the number of atoms of iodine per molecule of As_2S_3 theoretically absorbed at each stage.

These experiments afford a reasonably complete explanation of the apparently abnormally high "Calculated iodine values" of orpiment (corresponding to 6-20 atoms of iodine per molecule of orpiment) obtained by Rangaswami and Aldis (*loc. cit.*).

We are further investigating in detail the mechanism of these reactions.

Scottish Pharmaceutical Federation

A MEETING of the Executive Council of the Scottish Pharmaceutical Federation was held in Edinburgh on March 3, Mr. P. M. Duff (president) in the chair. The president made sympathetic reference to the loss sustained by the Federation in the recent death of Mr. R. Alexander, Strichen, Aberdeenshire, who had been a valued member of the Executive Council for nearly ten years. The secretary was instructed to record in the minutes the Executive Council's sense of loss and deepest sympathy with Mrs. Alexander and the family. Mr. W. S. Taylor, Inverurie, was unanimously appointed to fill the vacancy in the Executive Council. Eight applications for membership were submitted and passed.

N.H.I. Test Prescription

Regarding the N.H.I. prescription case in which there was an excess of 87 per cent. of acid. nitric. dil. (*C. & D.*, January 2, p. 6), it was reported that the secretary had drafted a letter for the member to send to the clerk to the Insurance Committee, that the member had duly appeared before the Pharmaceutical Service Subcommittee and that he was acquitted.

Indemnity Claim

It was reported that a claim had been made against a member for supplying solution of acriflavine (3 per cent.) instead of solution of mercurochrome (3 per cent.) ordered as a lotion for the ear, the customer claiming that her ear was slightly burned and that as a result of some of the lotion getting into one of her eyes her eye had to be treated by a specialist; settled for £50 and £4 4s. expenses.

Staff Trading

A member had complained regarding a perfumery company sending their Christmas price list to a firm of manufacturers with a view to the employees of the firm buying their goods wholesale. It was reported that as a result of representations made by the Federation, the perfumery company had agreed to cease the practice.

No Dividend Slips

A member had complained regarding a co-operative society granting dividend slips on sales of P.A.T.A. goods. A report was given of lengthy correspondence with the P.A.T.A. and with the member concerned, and it was intimated that the P.A.T.A. were now insisting on the society in question obtaining special non-dividend slips for P.A.T.A. goods on which the co-operative member's number was not to appear.

Conditions in the Distributive Trades

Reports were given of meetings attended by the president and vice-president in connexion with the Ministry of Labour's inquiry into the wages, hours and conditions in the distributive trades in Scotland. It was mentioned that the Federation had obtained some statistics regarding different districts in Scotland so far as the retail drug trade is concerned.

New C.F. Scheme Suggested

A statement was submitted showing the result of the replies received to date to the Federation's postcard asking (1) if they were in favour of the Federation inaugurating a Chemists' Friends scheme for Scotland on the lines of the draft agreement, and (2) if they would promise to give it their whole-hearted and unswerving support. Ninety-four per cent. of those who replied answered "Yes" to both questions. It was remitted to the Propaganda Committee to arrange for meetings in different parts of Scotland.

Medicine Stamp Duties

Reference was made to the evidence submitted by representatives of the Federation when they appeared before the Select Committee on Medicine Stamp Duties on January 26. The report of the Select Committee was then submitted; after due consideration it was decided to get into touch with the Pharmaceutical Society and with the National Pharmaceutical Union with a view to joint action being taken. It was remitted to the Parliamentary and Law Committee to take any steps considered necessary by them.

Memorandum on the Methylated Spirits (Scotland) Bill

The following are the principal passages in a memorandum on the Methylated Spirits (Scotland) Bill sent by the Federation to all members of Parliament for Scotland, the ten members of Parliament for England who are members of the Standing Committee, the Secretary of State for Scotland, the Secretary of State for Home Affairs, Mr. W. W. Wakefield, M.P., the secretary of the Pharmaceutical Society of Great Britain and the secretary of the North British Branch of the Society:—

The Parliamentary and Law Committee of the Scottish Pharmaceutical Federation have examined the Methylated Spirits (Scotland) Bill, and would at once state that they are in sympathy with the desires of the promoters, but, with their knowledge of actual conditions, are of opinion that a Bill will not achieve the desired result.

The object of the backers of the Bill cannot be attained as substitutes for methylated spirits are available, and are used now, although they have not the same popularity as methylated spirits owing to their slightly higher cost. Surgical spirits and cheap eau de Cologne are such alternative preparations. They are prepared with industrial spirits, and it is as easy to tamper with them as it is to prepare methylated spirits for an intoxicating beverage. It must be carefully noted that cheap eau de Cologne, surgical spirits and similar preparations can be sold by anyone and at all times. . . . We have knowledge that these latter preparations are used for a wrong purpose, but as it is cheaper, methylated spirits is used oftener.

If Parliament think the evil is as great as the backers of the Bill do, the existing machinery should, as far as possible, be used in registered premises or in restricting sales. No new legislation is necessary. The spirits could be added as "Poisons" to the Poisons List under the Pharmacy and Poisons Act, 1933, and as such be sold only by a chemist or a "listed seller." . . .

The Parliamentary and Law Committee of the Scottish Pharmaceutical Federation thinks, however, that no further legislative interference is needed, as the so-called "meth-drinking evil" is greatly exaggerated by the colourful imagination of certain sections of the Press.

The report is signed by the president (Mr. P. M. Duff) and the secretary (Mr. H. Graham Macmillan) of the Federation.

New Zealand Notes

Licences for Chemists and Druggists

Under the provisions of the Industrial Efficiency Act, 1936, ten industries have been gazetted as licensed industries by the New Zealand Government. Among them is the "business of any chemist or druggist carried on by the keeping of any open shop or place for the compounding or dispensing of prescriptions." The actual workings of the Act are still obscure, but so far as chemists are concerned the position is that all existing businesses will be licensed. Anyone wishing to open a new pharmacy must first procure permission from the Bureau of Industry, which must be satisfied that the need exists. The present owner will thereby be protected provided he is able to give the necessary service to the public. If he fails to do so the Bureau of Industry has the power to remove him from the list.

Scientists' Conference

The Australian and New Zealand Association for the Advancement of Science has recently concluded its annual conference at Auckland, New Zealand, under the presidency of Sir David Rivett (chief executive officer, Commonwealth Council for Scientific and Industrial Research). Among the papers read were "Major Advances in Medicine in the Twentieth Century" (Professor D. W. Carmalt Jones, Otago University); "Remarks on the State of our Knowledge Regarding Vitamins" (Professor J. Malcolm, University of Otago); "Origin and Distribution of the Alien Flora of New Zealand" (Dr. H. H. Allan). In his presidential address Sir David Rivett expressed satisfaction that the Commonwealth Government had decided to provide £30,000 a year for five years for scientific research.

The Pharmaceutical Conference (Pharmacy Board of New Zealand) met in Auckland following the Science Conference. Among those present was Mr. J. A. Pond, Auckland, now over ninety years of age, who was a member of the first Board. He addressed those present and received the Board's congratulations. Mr. L. H. Heslop, public accountant, Wellington, whom the New Zealand chemists engaged when opposing the opening of company pharmacies in the Dominion, read a paper based on statistical data which he collected from chemists, wholesale and retail, at the time. Mr. Heslop said that the foundation of any scheme for the complete and permanent reorganisation of pharmacy in New Zealand must be based, first, on a more economical and serviceable distribution of pharmacies; secondly, on the progressive improvement of merchandising methods as applied to pharmaceutical retail activity. The wholesale aspects of the schême included a merger of the interests of existing wholesale drug houses, the identification of the interests of all retail pharmacists with the wholesale company by subscription of share capital, and adequate representation of retailers on the board of directors. Retail aspects included the submission of the chemist-retailer to certain fundamental rules of discipline and organisation in matters relative to his retail activity, and the application to the business of each pharmacist of the principles adopted for the improvement of the profession. Defence against gas attack and the part played by the pharmaceutical chemist was another subject discussed. The New Zealand representative stated that anti-gas ideas had not been prevalent in the Dominion, but interest was being shown in any action taken in Australia. A subcommittee was set up. Mr. H. J. S. Rickard (president of the New Zealand Pharmacy Board) was nominated by the New Zealand delegates as president-elect for the next meeting of the Pharmaceutical Association, to be held in Canberra, Australia, in January 1939.

Items in Parliament

Easter Vacation

Parliament adjourns for the Easter vacation on March 25, and reassembles on April 6. It is announced that the Budget will be opened on April 20.

Air Raid Precautions

Mr. Creech Jones asked the Home Secretary what steps, if any, his Majesty's Government intends taking to see that the gas masks for sale in this country conform to the Home Office specifications?

Mr. Lloyd: A procedure has been arranged under which private manufacturers may be licensed to affix a Home Office Certification Mark to respirators of their own or Government design, which comply with a Government performance specification. Under this procedure manufacturers are required to submit specimens for examination and a test of performance. If the article is satisfactory a licence is granted to affix the Home Office Certification Mark. This licence remains in force for six months and thereafter until brought to an end by the Government. The process of manufacture, the components of respirators and completed respirators are subject to Government inspection.

Chemical Industry

Miss Ward asked the President of the Board of Trade whether he will survey the imports under the chemical groups to ascertain those imports for the manufacture of which there is no provision here; and whether he will subsequently consult with the chemical manufacturers as to how far it is practicable to commence manufacture here?

Mr. Runciman: Many kinds of chemical products cannot, for natural reasons, be economically produced in this country. I am satisfied that the chemical industry are well aware of the potentialities of this market, and are constantly increasing the range of their products.

Miss Ward: Will the right hon. Gentleman consider asking the chemical industry whether they can produce any other products here and consider the possibility of manufacturing them?

Mr. Runciman: We are constantly in touch with the chemical industry and interchange information as to what is taking place. We are, of course, prepared to discuss the matter with them.

Centenary Reconstruction

THE business of Spong & Son, Ltd., Biggleswade, is a pharmacy with departments for printing, stationery, tobacco, wines and spirits, and a lending library. In 1836 the late Mr. T. W. Spong built and established in the High Street the business of a chemist, and the front remained unaltered until last year. In 1840 a stationery and printing department was added. About the year 1886 it passed into the hands of the late Mr. Douglas Morton Spong; during his owner-

NEW FRONT OF SPONG & SON, LTD.

ship the printing department was much enlarged, and he continued to be the proprietor until his death, which took place in May 1935. In May 1936 the business passed to Mr. R. M. Spong, and it has since been converted into a limited company. To mark the centenary a new front was put in with an extra window for the stationery department, to which the library is attached. The business also possesses agencies of old standing for wines and spirits and for the Atlas Assurance Co. Mr. D. M. Spong was well known for Spong's Pig Powders, which were manufactured on the premises and sent all over the country. It will be noticed that the first two proprietors were each in occupation for about fifty years. We trust that another century of progress is in store for this interesting business.

Insurance Act Dispensing

Record of matters concerning chemists' interests in the National Health Insurance Acts

Derbyshire.—More discrepancies in drugs tested during the last quarter than at any time during the term of office of the present chairman of the Pharmaceutical Service Subcommittee were reported at a meeting of the Insurance Committee. Eight cases arising from tests called for inquiry. In two instances the chemists' explanations were accepted. In another the chemist informed the Committee that he was unable to attend a meeting, of which he was advised, because his was a one-man business and he could not leave it. In the other five cases the results of independent analyses were not available and consideration of them was deferred. The discrepancies were not serious but, it was stated, definite. A member called attention to one or two recent cases where the dispensing had been done by doctors, and it was said that the drugs had deteriorated because they were old stock. He asked if doctors were ever required to account for the condition of the drugs they were dispensing. The chairman replied that under the Act they had no jurisdiction over the doctors in the matter. The secretary stated that whereas different medicines used to be taken from different chemists it was now considered better to have the same test for each chemist ; usually there were a dozen to fifteen tests each quarter. A member suggested it was reasonable to assume that the first test made in any particular area was the only genuine one. His information was that in one part of the county as soon as a test sample was taken from any chemist the telephone bell began to ring and the chemists informed each other that the inspectors were going round. Another member interposed that unless the chairman had definite proof of what he said this was a most unfair remark to make. The chairman replied that he was not casting a reflection on any chemist or chemists. A serious view was taken of a case in which the sample showed deficiencies in four ingredients. The chemist concerned explained that at the time the sample was procured he was overwhelmed with dispensing and counter business and by the influx of a number of impatient juvenile customers. He was unable to explain the shortage of the ingredients unless he had inadvertently used avoirdupois instead of apothecaries' weights. It was decided to warn him.

Manchester.—The Chamber of Commerce Testing House and Laboratory, which is responsible for the analytical control of surgical dressings supplied under the N.H.I. scheme, tabulates, in its report for the year 1936 recently issued, the total number of dressings received each year since the inauguration of the testing scheme, together with the actual number and percentage found to be deficient:—

Period Aug.–July	Total Dressings received	Deficient in Quality		Deficient in Quantity	
		No.	Percentage	No.	Percentage
1925–1926 ...	689	224	32·5	62	9·0
1926–1927 ...	762	155	20·3	48	6·3
1927–1928 ...	852	161	19·0	48	6·0
1928–1929 ...	1,119	170	15·2	61	5·5
1929–1930 ...	1,029	118	11·5	45	4·3
1930–1931 ...	1,122	129	11·5	31	2·8
1931–1932 ...	1,029	71	6·9	23	2·2
1932–1933 ...	1,054	46	4·4	26	2·5
1933–1934 ...	1,059	34	3·2	26	2·5
1934–1935 ...	980	59	6·0	29	3·0
1935–1936 ...	1,070	66	6·2	19	1·8

During the last period covered by the table there was a decrease in the percentage of samples found deficient in quantity, though a deficiency in quality similar to that of the previous period was recorded. Actually, it is reported that an improvement in quality was indicated, since the revised and more stringent specifications of the British Pharmaceutical Codex, 1934, were in force for the full twelve months, as compared with four months only of the 1934-35 period. Separate records as to the wrapping of test appliances, compiled since 1930 at the request of the National Association of Insurance Committees, are shown as follow.

In Original Sealed Packets

Period Aug.–July	Deficient in Quality		Deficient in Quantity	
	Number	Percentage	Number	Percentage
1930–1931...	117	11·0	25	2·3
1931–1932...	66	6·5	22	2·2
1932–1933...	43	4·2	24	2·3
1933–1934...	32	3·1	24	2·3
1934–1935...	54	5·7	28	2·9
1935–1936...	53	5·2	17	1·7

Not in Original Sealed Packets

Period Aug.–July	Deficient in Quality		Deficient in Quantity	
	Number	Percentage	Number	Percentage
1930–1931...	12	21·8	6	10·9
1931–1932...	5	27·8	1	5·6
1932–1933...	3	13·6	2	9·1
1933–1934...	2	11·8	2	11·8
1934–1935...	5	20·0	1	4·0
1935–1936...	13	27·7	2	4·3

The evidence goes to show that deficiencies occurred much less frequently in dressings supplied in manufacturers' or wholesalers' wrappings, as required by the Drug Tariff, than in those which were not so wrapped.

Reading.—The Minister has decided, on the recommendation of the local Insurance Committee (after consideration of a report by its Pharmaceutical Service Subcommittee), that the sum of £20 is to be withheld from the remuneration payable to a panel chemist described as "Mr. A, trading under the title of B.C., M.P.S." From the Subcommittee's minutes it appeared that Mr. A. had been "covering" a firm described as "The A.C.C." During July and August 1936 the clerk to the Insurance Committee obtained two test scripts from panel practitioners and sent them to the premises of the A.C.C., where they were dispensed. These scripts were subsequently forwarded for payment by Mr. A. as having been dispensed at "O.R.," whereas they had in fact been dispensed at "B.R., the premises of the A.C.C.," and further investigation showed that fourteen other scripts in July, and ninety-five in August, had been similarly treated. Giving evidence before the Subcommittee, Mr. A. stated that at the end of July Mr. L. M. called on him and informed him that he had purchased the business at B.R., and was going on the panel, and that pending completion of details he (Mr. L. M.) had been assured by the Pharmaceutical Society and by Mr. Blair (clerk to the Insurance Committee) that it was all right to carry on dispensing, but until his arrangements had been completed he could not claim payment direct. Mr. L M. gave him the July scripts and told him to include them in his account. Mr. L. M. told him on August 1 that he was getting registration through as "Your Chemists, Ltd." Mr. A. said that he now knew that Mr. L. M.'s statements about the Pharmaceutical Society and Mr. Blair were untrue, and stated that he had never paid any money to Mr. L. M. for the scripts in question. He admitted he should have known that the Pharmaceutical Society and Mr. Blair had no power to authorise an unqualified person to carry out the dispensing of National Health Insurance prescriptions, and he should have realised that he was acting wrongly in making claims on the Insurance Committee for scripts not dispensed. He did not know the number of scripts handed to him. It was stated that at one stage in the investigation the papers in the case were handed to the police; it was found, however, that Mr. L. M. had absconded. The papers were then returned to the Insurance Committee.

Forfeiture for Non-Payment of Rent

By a Barrister

(*Concluded from* The Chemist and Druggist, *March* 13, *p.* 313)

Waiver by distress is in a somewhat different position from waiver by other acts. One of the essentials of distress is that the relation of landlord and tenant should exist between the parties at the time of distress. By distraining accordingly the landlord of necessity acknowledges that the person upon whom he is distraining is his tenant. Distress therefore will waive any forfeiture not only up to the date in respect of which the rent distrained for was due, but up to the date of the distress itself (Doe d. Flower v. Peck, 1 B and Ad., at p. 437).

But in cases falling within Sec. 210 of the Common Law Procedure Act, 1852, distress will not constitute a waiver. The reason for this appears to be that the landlord is entitled under that Act to make a distress in order to ascertain whether sufficient distress can be found countervailing the arrears. Reference on this point may be made to Thomas v. Lulham (1895, 2.Q.B., 400), where distress by the landlord was held not to operate as a waiver of his right of re-entry for non-payment of rent so as to prevent him from maintaining ejectment under Sec. 210 of the Common Law Procedure Act, 1852. Lord Esher, M.R., puts the matter thus succinctly in his judgment (p. 405):—

"My view is that the old common law has not been altered and that the receipt of rent by a landlord still operates as a waiver of a forfeiture previously accrued. But in my opinion the statute has given to the landlord a new, original, and independent right, and I think that under the statute the plaintiff was entitled to levy the distress without thereby waiving his right of re-entry."

After Proceedings are Instituted

But acts which may amount to a waiver will not necessarily have this effect once proceedings in ejectment have been instituted. Once the writ has been issued the landlord, apparently, may accept rent or distrain thereafter without waiving the forfeiture. On this point reference may be made to the leading case of Grimwood v. Moss, 1872, 7.C.P., 360. There breaches of covenant were committed by the tenant before June 24, 1871, and an action for ejectment was brought on July 21, 1871, though the writ did not claim possession as from any antecedent date. After the commencement of the action but before trial, the lessors distrained for rent up to June 24, 1871. It was held that such distress did not preclude them from relying at the trial on any breach of covenant before June 24, 1871, on the ground that by bringing ejectment they had unequivocably declared their election to determine the lease on any ground of forfeiture which had not been waived before the commencement of the action, and the subsequent distress, if not justifiable under statute (8 Anne c. 14, which enabled the landlord to distrain in certain circumstances after the determination of the tenancy) was a trespass. The following passages from the judgment of Willes, J., are instructive:—

"I entirely agree . . . that the bringing of the action of ejectment is equivalent to the ancient entry. It is an act unequivocal in the sense that it asserts the right of possession upon every ground that may turn out to be available to the party claiming to re-enter. In Dr. Grenville v. The College of Physicians (12 Mod., 386), Lord Holt laid it down that a person doing a lawful act was not bound by the ground he alleged for doing it, but might justify it on any ground that existed in fact. The act of entry is one of those acts in pais . . . which binds parties by way of estoppel as being acts of notoriety not less formal and solemn than the execution of a deed. It is quite clear, if the landlord instead of bringing ejectment had entered, he could have justified an action of trespass by reference to any act of forfeiture which he could prove. In my opinion the subsequent distress can make no difference. If the landlord had entered, a distress on the goods of the tenant would not have defeated the effect of his entry. Apart from statute, it would be a simple act of trespass; and whether it be justified by the statute of Anne or not is immaterial. Therefore the whole case comes to this: there is an action, the bringing of which is equivalent to an entry for the forfeiture, which determines the term, followed by a distress, which is either a trespass for which the defendant has his remedy, or if valid, does not involve any continuance of the term, but is so by reason of a statute which entitles the landlord to distrain after the term is determined."

Once, therefore, the landlord has taken an unequivocal step indicating forfeiture, no subsequent act by him can waive the forfeiture. But the nature of the unequivocal steps which he may thus take are, it would appear, limited to (*a*) actual entry and (*b*) instituting proceedings in ejectment. The service of a statutory notice under Sec. 146 of the Law of Property Act, 1925, drawing the attention of the tenant to the breach and requiring him to remedy the same cannot, it seems, be regarded as such an unequivocal act, since it is still open to the landlord not to act upon his notice.

Intention Negatived by Claims

But in certain circumstances the unequivocal nature of instituting proceedings may be destroyed by claims which negative an intention to forfeit. Thus to claim an injunction to prevent the continuance or repetition of the acts alleged to constitute a breach would automatically constitute a waiver (Wheeler v. Keeble, 1920, 1, Ch. 57). So also would a claim for rent accruing due after the date of the forfeiture. And, indeed, care should be taken with regard to the claim for rent and mesne profits. In Elliott v. Boynton, 1924, 1, Ch. 236, it was held that in the case of a forfeiture the lessor's right to mesne profits does not relate back to the date of the breach of covenant giving rise to the forfeiture, but runs only from the date of the writ, because the lessor's cause of action is not complete until he takes some step evidencing his intention to enter for the forfeiture and determine the lease, the issue of the writ constituting such step. Mesne profits in the case of a forfeiture, therefore, can only be claimed as from the date of the writ until delivery of possession.

In conclusion, the rules with regard to relief against forfeiture for non-payment of rent have certain peculiarities.

In the first place, it is not essential to serve any statutory notice specifying the breach and requiring the tenant to remedy the same as is required in the case of breaches of other covenants, by Sec. 146 (1) of the Law of Property Act, 1925.

Further, relief may be given to a tenant in the case of non-payment of rent long after the forfeiture, even though the tenant has been evicted. Such relief may be given if—

(1) the tenant applies to the Court within six months after the ejectment;

(2) all arrears of rent are paid; and

(3) it is equitable that he should be relieved (Howard v. Fanshawe, 1895, 2, Ch. 581).

At the Counter

Plain English.—F. T. R. (2/47) sends us written requests received for "Costive pencil for worts"; "3 pennorth Up Matilda" (lin. saponis); "6d. worth Spirits Knighter"; "Amonaia quinie small bot."

A Belfast Chemist (6/3) writes that he received a written order for "Hair's guts and April"; ergo-apiol was the preparation intended. "Cats Carragh for stomach and glycerine, 3 pence" (another written request), "speaks for itself," the same chemist adds.

A Powerful Shampoo.—A Birmingham chemist vouches for the following dialogue:—Small boy: A T—— shampoo, please. Chemist: For fair or dark hair? S.B.: Fair. A Neighbour, present in shop: Go on, George, tha mother's as dark as I am. Dost tha want to turn her platinum blonde?

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, March 24

A RATHER QUIET TONE has prevailed in most markets this week, and the volume of business has been no more than normal. The general tone, however, continues very steady and most changes in quotations are to higher values. The Anglo-Italian clearing arrangement seems to be working more satisfactorily, with payment reaching shippers in about two weeks. The PHARMACEUTICAL CHEMICALS markets are steady, and the tendency for prices to advance is still gaining strength. GLYCEROPHOSPHATES, as anticipated last week, have been advanced. With further increases in metal prices the new scales for CADMIUM SALTS have yet to be declared, but an advance is definite. The Continent has advised a sharp reduction in the scale of prices for AMIDOPYRINE; the old scale had not been operating for some months, and the new scale is not a reduction in actual sales prices. COUMARIN is a firm market and an advance is expected shortly.

Crude Drugs

Although rather quieter, these markets have attracted a steady flow of business, with country consuming trade in evidence and a good revival of export business to the Continent, particularly to the Baltic States. The demand for AGAR has been quiet, but shipment is held at the recent advances. Shippers of new crop BUCHU are keeping their prices firm, notifying a short crop. Good export business in CAMPHOR reported. Shipment offers of CARDAMOMS are firm, with the spot market practically bare of supplies. Fair amount of spot business in CASCARA SAGRADA; no shipment offers. CLOVES are about steady, market quiet. COLOCYNTH is in very small supply on spot at high values; the forward position is also very firm. Business in DERRIS ROOT shows no improvement. All descriptions of ERGOT in sparse supply on spot; market firm. With practically no shipment offers the spot price for HYDRASTIS tends still dearer. Business in Japanese MENTHOL has again been quiet; shippers' quotations steady. A further improvement in supplies of MERCURY is notified; values steady. Quite a good business continues in the Rough Round variety of RHUBARB, and prices, spot and forward, tend dearer. TRAGACANTH continues steady but supplies seem to be offering a little more freely. WAXES are unchanged and quiet.

Essential Oils

Only a very moderate business is reported this week, with quoted prices keeping generally steady. ANISE (STAR) is dull and unchanged. BERGAMOT has been rather neglected, spot and forward. There have been very few, if any, offers of Ceylon CITRONELLA for shipment; value nominal. Except that the Madagascar oil is quoted slightly cheaper for shipment CLOVE continues firm. Australian EUCALYPTUS is quoted dearer forward and only May-June shipment is offered. The source reports continued lack of demand for Sicilian hand-pressed LEMON, and, in consequence, shipment prices are again easier, and spot tends to be slightly unsteady also. NEROLI, according to reports, is to be dearer. No shipment offers of French Guinea ORANGE, with the source reporting all new crop oil sold. The spot market has hardened, with holders of good quality new crop oil now asking much higher prices. Singapore PATCHOULI is rather easier an spot. Japanese PEPPERMINT has been in quiet demand, but prices are showing no material change. One source reports a very substantial increase in shipment prices for WORMSEED.

Exchange Rates on London

THE following is a list of the chief Continental and other exchange rates at the opening on Wednesday morning:—

Centre	Quoted	Par	March 18	March 24
Amsterdam	Fls. to £	12·107	8·93½	8·92½
Berlin	Mks. to £	20·43	12·14	13·14
Brussels	Belgas to £	nominal	29	29
Copenhagen	Kr. to £	18·159	22·40	22·40
Lisbon	Esc. to £	110	109¾	109¾
Madrid	Ptas. to £	25·22½	nominal	nominal
Milan	Lire to £	92·46	92¾	92¾
Montreal	Dol. to £	4·86⅔	4·88¼	4·88
New York	Dol. to £	nominal	4·88½	4·88¼
Oslo	Kr. to £	18·159	19·90	19·90
Paris	Fr. to £	124·21	106½	106¾
Prague	Kr. to £	164·25	140	140
Stockholm	Kr. to £	18·150	19·40	19·40
Warsaw	Zloty to £	43·38	25¾	25¾
Zurich	Fr. to £	25·2115	21·44	21·44

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

ROUTINE business continues in these products. Glycerophosphates are dearer. Amidopyrine is quoted cheaper.

ACETANILIDE.—The firmer tone recorded last week is maintained, with prices from about 1s. 7d. per lb. upwards, as to quantity.

AMIDOPYRINE.—The scale of prices for this material have been considerably reduced: two cwt., 13s. 6¼d.; one cwt., 13s. 10d.; less than one cwt., 14s. 1¾d. per lb., with powder, 2½d. per lb. extra. Prices are duty paid, ex store.

AMMONIUM ICHTHIOSULPHONATE.—Small business, values steady: one cwt., 1s. 6½d., in 14-lb. tins; 1s. 8d., in 1-lb. tins; 1s. 10½d., in 8-oz. tins, and 2s. 1d. per lb., in 4-oz. tins.

ASPIRIN.—Makers' and dealers' prices are unchanged, business continues on a very fair scale: home trade, ten cwt., 2s. 7d.; five cwt., 2s. 8d.; 1 cwt., 2s. 8½d.; 28 lb., 2s. 9d.; 14 lb., 2s. 10d.; 7 lb., 3s.; 4 lb., 3s. 2d.; 1 lb., 3s. 4d. per lb. Bulk packing free, net, carriage paid. Contracts, over twelve months, minimum one ton; over six months, less than one ton.

BARBITONE.—Market dull, quotations irregular: spot, one cwt., 15s. 3¾d.; 56 lb., 15s. 8d.; small parcels, up to 16s. 3d. per lb.

BENZOIC ACID (B.P.).—Values keeping steady; quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 3d. per lb., ex store, as to quantity.

BISMUTH SALTS.—Makers' scales of prices and terms of payment continue at the recent revision: Carbonate, not less than one cwt., 6s. 6d.; 28 lb., 6s. 9d.; 8 lb., 7s. 3d.; 4 lb., 8s.; less than 4 lb., 8s. 6d. per lb.

BROMIDES.—Makers' scales of prices steady. POTASSIUM, P.B., five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s. per lb. SODIUM, B.P., five cwt., 1s. 10d.; one cwt., 1s. 11d.; 28 lb., 2s. 2d. per lb. AMMONIUM, B.P., five cwt., 1s. 11d.; one cwt., 2s.; 28 lb., 2s. 3d. per lb., net. Resale clause applies. 28-lb. parcels and one-cwt., cases free. Export quotations are maintained, as follows: POTASSIUM, B.P., five cwt., 1s. 4d.; one cwt., 1s. 4½d. SODIUM, B.P., five cwt., 1s. 5d.; one cwt., 1s. 5½d. AMMONIUM, B.P., five cwt., 1s. 6½d.; one cwt., 1s. 7d. per lb., f.o.b.

BUTYL CHLORAL HYDRATE.—Market has been quiet: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CHLORAL HYDRATE.—British material is steady as quoted: duty paid crystals, in 14-lb. free containers, five cwt., 3s. 2d.; one cwt., 3s. 3d.; 28 lb., 3s. 4d. per lb.; 28-lb. jars, one penny per lb. extra.

CITRIC ACID (B.P. CRYSTALS).—Quoted unchanged, market steady: British material quoted at 1s. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for imported material are competitive.

COUMARIN.—Market is firm and an advance in the price is anticipated.

CREAM OF TARTAR.—Fair business at steady prices: British material, 99 to 100 per cent., 84s. per cwt., less 2½ per cent. discount. Dealers' prices for foreign material competitive.

GLYCERIN (B.P.).—Makers' prices for home consumption are firm at the recent advances and supplies are restricted: one ton, in 10-cwt. drums, 101s. 6d. per cwt., drums extra.

GLYCEROPHOSPHATES.—Prices have advanced, as follows: Acid Calcium (soluble), 28 lb., 4s. 6d.; 7 lb., 5s. Calcium, neutral, B.P.C., 28 lb., 4s. 6d.; 7 lb., 5s. Potassium, 75 per cent., 28 lb., 4s. 6d.; 7 lb. 5s. Sodium, 75 per cent., 28 lb., 2s. 9d.; 7 lb., 3s. 3d. per lb. 28 lb. tins free, other packings extra.

MERCURIALS.—Market is firm at makers' prices: Chloride, B.P. (calomel), one cwt., 5s. 11d.; less than one cwt., from 6s. per lb.

METHYL SALICYLATE.—Remains rather quiet but steady: spot, ten cwt., 1s. 1¾d.; five cwt., 1s. 2d.; one cwt., 1s. 2¼d.; less than one cwt., 1s. 2½d.; small quantities, in bottles, up to 2s. per lb.

METHYL SULPHONAL.—Not much business moving: two cwt., 19s. 3¾d.; one cwt., 19s. 9¼d.; 56 lb., 20s. 2¾d.; small parcels, 20s. 8d. per lb.

PHENACETIN.—Moderate business, market steady: crystals or powder, bulk quantities, 2s. 6d.; smaller parcels, 2s. 7d. to 3s. per lb., as to quantity.

PHENAZONE.—Dealers' prices for imported material continue keen, business quiet: spot quoted at about 6s. to 6s. 6d. per lb., with crystals 2½d. per lb. extra.

POTASSIUM PERMANGANATE (B.P.).—Imported material is firm as quoted: bulk quantities, in drums, 9¾d. to 10d.; druggists' parcels, 10d. to 1s. per lb., as to quantity.

QUININE SALTS.—Convention prices continue unchanged: sulphate, 2s. 2d.; bisulphate, 2s. 2d.; ethyl carbonate, 2s. 9¾d.; salicylate, 2s. 10½d.; hydrochloride, 2s. 8½d.; bihydrochloride, 3s.; hydrobromide, 2s. 8½d.; bihydrobromide, 3s.; hypophosphite, 4s.; alkaloids, 3s. 0½d. per oz., carriage paid on bulk quantities; 100-oz. tins free, smaller packages extra.

RESORCIN.—British material only available: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., up to 6s. 6d. per lb.

SACCHARIN.—The Convention price for 550 is 37s. 6d. per lb., duty paid, with rebates for quantities.

SALICYLIC ACID (B.P.).—Makers' prices are steady: five cwt., 1s. 7d.; one cwt., 1s. 7½d.; 28 lb., 1s. 8d.; 14 lb., 1s. 9d.; 7 lb., 1s. 10d. 4 lb., 2s. per lb.

SALOL.—Market continues very competitive, with business slow: quoted from about 2s. 7d. to 3s. per lb., as to quantity.

SANTONIN.—Business of small account, with spot offers in the region of £10 per kilo, ex store.

SODIUM BENZOATE (B.P.).—Fair business at steady prices: bulk quantities, 1s. 6d.; one cwt., 1s. 7d.; smaller parcels, 1s. 7½d. up to 2s. per lb., as to quantity.

SODIUM DIETHYLBARBITURATE.—Quotations unchanged, market quiet: spot, one cwt., 11s. 6d.; 28 lb., 11s. 9d.; 14 lb., 12s.; 7 lb., 12s. 3d.; smaller parcels, up to 12s. 6d. per lb.

SODIUM SALICYLATE (B.P.).—Rather quiet but values are fully steady: home trade, crystals or powder, five cwt., 1s. 5½d.; one cwt., 1s. 6d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 2s.; 1 lb., 2s. 3d. per lb.

SULPHONAL.—Market is dull and irregular: crystals or powder, two cwt., 15s. 5¼d.; one cwt., 15s. 10¾d.; 56 lb., 16s. 1d.; smaller parcels, up to 16s. 7d. per lb.

TARTARIC ACID (B.P. CRYSTALS).—Market continues quite steady: British makers quote at 1s. 0⅞d. per lb., less 5 per cent. discount. Dealers offering foreign materials at competitive prices.

Crude Drugs, etc.

ACONITE ROOT.—Some supplies of Japanese are available and quoted at about 47s. 6d. per cwt., ex store.

AGAR.—Business of little importance; shipment offers firm. Some cheap re-sellers of afloat parcels: Spot, Kobe No. 1, 4s.; No. 2, 3s. 9d.; Yokohama No. 1, 3s. 7d. per lb.; shipment, March-April, Kobe No. 1, 3s. 10d.; No. 2, 3s. 8d.; Yokohama No. 1, 3s. 5d. per lb., c.i.f. Re-sellers, afloat parcels, business done in Kobe No. 1 at 3s. 6d. per lb., c.i.f.

ALOES.—Quiet market. A parcel of Cape arrived this week. Values steady. Cape, spot, 60s. in boxes; shipment, prime, in boxes, 58s. per cwt., c.i.f. Curaçao, spot, 95s. to 110s.; shipment, 90s. to 92s. 6d. per cwt., c.i.f.

ANTIMONY.—Chinese crude, spot, is dearer at £42; shipment nominal at £39, c.i.f. English regulus, £88 to £89 per ton, spot.

BALSAMS.—Small spot business: *Tolu*, 1s. 8d.; *Canada*, 2s. 7d.; *Copaiba*, firm at 1s. 8d.; *Peru*, 5s. 4d. per lb., spot.

BENZOIN.—A limited routine business, with ample stocks here and at the source keeping values at a low level: £3 10s. to £5 per cwt., as to grade.

BUCHU.—There is a fair amount of interest in this product. New crop for shipment is sparingly offered in the region of 2s. 2d., c.i.f. On spot prices for rounds are fully steady at 2s. 3d. to 2s. 6d. per lb., as to quality, the higher price being for fine colour bold leaf.

CAMPHOR.—There has been a very good demand for export to the Baltic States this week. Values fully steady. Japanese manufacturing BB grade is steady at the recent advance at £8 10s. per 100 lb. Japanese, spot, tablets, 2s. 7½d.; powder, 2s. 3½d.; slabs, 2s. 3d. per lb., ex store; shipment, tablets, 2s. 3d.; powder, 2s. 1d.; slabs, 2s. 0½d. per lb., c.i.f. English refined flowers: one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz. and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ⅓ oz. and ¼ oz., 3s. 6d. per lb. Contracts at special prices.

CARDAMOMS.—Except for a few splits at about 5s. to 5s. 3d. per lb., the spot market is bare of supplies. Shipment, Aleppy greens, 4s. 2d., c.i.f. Bombay seed, 6s. 4d., c.i.f. Mangalore seed, 6s. 2d. per lb., c.i.f.

CASCARA SAGRADA.—A moderate spot business at full prices, market firm as quoted. Practically nothing offered from the source. Spot, 1936 peel, from 62s. 6d.; 1935 peel, 65s.; 1933 peel, 70s. per cwt., ex store.

CLOVES.—Market has remained quiet with values level on the week: Zanzibar, spot, 10½d.; shipment, nominal. Madagascar, in bond, 9d.; shipment, March-April, 8⅞d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended March 20 were 26 and the deliveries 27, leaving a stock of 2,299. From January 1 to date the landings of Zanzibar have been 1,734 and the deliveries 1,111. Landings of Madagascar for the week ended March 20 were *nil* and the deliveries 111, leaving a stock of 3,996. From January 1 to date the landings of Madagascar have been 3,365 and the deliveries 702 packages.

COCONUT (DESICCATED).—Business quiet, values steadier: spot, fine, 28s. 6d.; medium, 27s. 6d. per cwt.; shipment, halves, March-April, 25s. 6d. per cwt., c.i.f.

COD-LIVER OIL.—Bergen reports the shipment market remains quiet. Finest Lofoten steam refined non-freezing medicinal oil, 90s. to 92s. per barrel, c.i.f., London. Spot, in small lots, about 125s. per barrel, ex store. Newfoundland, non-freezing medicinal oil, 130s. per barrel, ex store. British medicinal oil: We are advised that the home producers are now quoting at 110s. per 25-gallon barrel, delivered U.K., with rebates for 25, 50 or more barrels. Lofoten fishing to March 20: 75,596 tons of cod and 39,528 hectol. of oil, compared with 52,331 tons of cod and 27,296 hectol. of oil on the same date in 1936, and 45,811 tons of cod and 29,129 hectol. of oil in 1935.

COLOCYNTH.—Only a portion of the parcel of old pulp mentioned last week is now available, and the price is firm at 2s. 6d. per lb., ex store. A small part of February shipments has now been advised. Re-sellers of March-April at 2s. per lb., c.i.f. No offers from the source.

DERRIS ROOT.—Market continues disappointing. Spot varies from about 11d. to 1s. 3d. per lb., according to test; shipment, about 9½d. per lb., basis 17 per cent. ether extract.

ERGOT.—There may be a few bags of Spanish-Portuguese on spot available at 6s. 3d. and a little Russian at 6s. per lb., ex store. Business done in Portuguese for shipment at 5s. 10½d. c.i.f., with anything now offered 6s., c.i.f.

GENTIAN.—The market is steady but rather slow, with Continental root quoted at 57s. 6d. per cwt., ex store.

GINGER.—Spot values for West African are slightly easier, steady forward. West African, spot, 62s. 6d.; shipment, March-April, 51s. per cwt., c.i.f. Jamaican, spot, bold, in barrels, 87s. 6d. to 90s.; small grindings, 62s. 6d. per cwt., in bags, ex store.

GUM ACACIA.—The source reports firmer conditions, due to very short arrivals from up country: shipment, Kordofan cleaned sorts, 42s. 6d. per cwt., c.i.f.

HENNA.—Moderate amount of small business: Egyptian, good green, 32s. 6d.; brown, 30s. per cwt., ex store.

HONEY.—Business of any importance is still lacking, with holders steadily maintaining their spot values. Jamaican, 38s. to 50s. for dark manufacturing to palish set. Californian, 49s. to 51s., duty paid. Canadian, 48s.; St. Domingo, darkish, 36s. per cwt., ex store.

HYDRASTIS.—Conditions are rather firmer here. Practically no shipment offers. Spot offers vary from 13s. 6d. to 14s. per lb., ex store, as to seller.

IPECACUANHA.—Business of small account. Matto Grosso, B.P. test, 7s. per lb.; shipment, 6s. 9d. per lb., c.i.f.

LAVENDER FLOWERS.—Spot supplies of No. 1 flowers quoted at 1s. 10d. and No. 2 flowers at 1s. 3d. per lb., ex store.

LOBELIA HERB.—Only a small business reported: spot, 6½d. to 7d. per lb., as to quantity.

LYCOPODIUM.—Market is steady but quiet at last week's dearer figure of 4s. 9d. per lb., ex store.

MENTHOL.—This market has remained rather quiet. K/S brands, spot, 12s. 10½d. to 13s.; in bond, 11s. 9d., c.i.f. Japanese shippers quote April-May at 11s. 6d., c.i.f., with resellers at 11s. 4½d. c.i.f. Some demand from the Continent. Inquiry for June and July shipment, but Japanese shippers not quoting; suggested re-sellers at 11s. 3d., c.i.f.

MERCURY.—A further improvement in available supplies is recorded and the outlook for shipments is stated to be better. Market is steady. It should be noted that first-hands will sell only to consumers. Quoted at 68 dollars per bottle, f.o.b. Continent; £14 per bottle, c.i.f. London; spot, in small lots, £14 7s. 6d. to £14 8s. per bottle, ex store.

OPIUM.—Market is steady as quoted: spot, Turkish, 1s. 3d. per unit, landed and duty paid. Persian, 1s. 1½d. per unit, duty paid.

PEPPER.—Values are steady on the week, business rather quiet. Lampong, in bond, 3¼d.; shipment, March-May, 3⅛d.; April-June, 3 3/16d.; August-October, 3⅜d., c.i.f. Tellicherry, spot, 4¾d.; shipment, March-April, 37s. 6d., c.i.f. Aleppy, spot, 4⅝d.; shipment, March-April, 37s. 6d., c.i.f. White Muntok, in bond, 6d.; shipment, March-May, 5¼d.; April-June, 5¼d.; August-October, 5⅜d. per lb., c.i.f.

PIMENTO.—Market steady, business quiet: spot, 8¼d. per lb.; shipment, March-April, 66s. per cwt., c.i.f.

RHUBARB.—Steady demand, mostly for rough round variety, of which stocks are now very limited. Shensi, best, 4s. 3d.; medium, 3s. 9d. to 4s.; good pickings, 3s. per lb. Rough round sold up to 1s. 9d. spot, and shipment, April-May, is now firm at 1s. 6d. per lb., c.i.f.

RUBBER.—The market has fluctuated within narrow limits, and prices are about maintained at last week's advance. Standard ribbed smoked sheet, spot, 1s. 0 3/16d.; April, 1s. 0 3/16d.; May, 1s. 0¼d.; June, 1s. 0 5/16d.; July-September, 1s. 0⅜d.; October-December, 1s. 0 5/16d.; January-March, 1s. 0 3/16d. per lb.

SAFFRON.—Spot supplies continue limited, with holders of genuine Valencia quoting about 65s. to 72s. 6d. per lb., as to quantity.

SARSAPARILLA.—Stocks of all descriptions are at a low level. Grey Jamaican, spot, 1s. 3d. reported paid.

SENEGA.—The spot market is again dearer and firm at from 2s. 4d. per lb.; shipment is also at an advance and is now sparingly offered from 2s. 3d. per lb., c.i.f.

SHELLAC.—Values level on the week, market rather dull: spot, standard TN orange, 54s. to 58s.; fine orange, 65s. to 122s. 6d.; pure button, 62s. 6d. to 65s. per cwt., spot. For arrival, TN, March-April, 53s. 6d., c.i.f. For delivery, TN, May, 54s. 6d.; August, 55s. 6d. per cwt.

SLIPPERY ELM BARK.—Spot stocks in bulk are restricted to grinding quality with the price quoted at 6½d. per lb., ex store.

TONKA BEANS.—Dealers are quoting some fair frosted Para beans at about 3s. 6d. to 3s. 8d. per lb. Angostura, 8s. 3d. per lb., ex store.

TRAGACANTH.—This market continues steady, with a fair amount of inquiry being dealt with. Druggists' fine white ribbon, £75; No. 2 grade, £65; No. 3 grade, £60 per cwt. Sellers appear to be not quite so reserved, with a tendency in the market to push business.

VENICE TURPENTINE.—Dealers continue to quote a limited supply of the true product at about 220s. per cwt., ex store.

WAX.—BEES'.—Market is generally steady, but quiet. Calcutta, bleached, spot, 147s. 6d.; shipment, April-May, 141s.; ordinary quality, spot, 130s.; shipment, 122s. 6d., c.i.f. Abyssinian, no spot offering; shipment, April-May, 127s. 6d., c.i.f. Benguella, spot, 145s.; shipment, 127s. 6d., c.i.f. Conakry, spot, none offering; shipment, none offering. Dar-es-Salaam, spot, 145s.; shipment, 140s. per cwt., c.i.f. CARNAUBA.—Market is unchanged and dull. Fatty grey, spot, 175s.; shipment, afloat, 170s., c.i.f.; April-May, 167s. 6d., c.i.f. Chalky grey, spot, 167s. 6d.; shipment, April-May, 163s. 6d., c.i.f. Primeira, spot, good quality, 220s., f.a.q., 215s.; shipment, April-May, 210s., c.i.f. Mediana, spot, 210s.; shipment, 205s., c.i.f.

Essential Oils, etc.

MARKETS have been mostly quiet this week, but values are about maintained. Sicilian hand-pressed lemon is again slightly easier forward. French Guinea orange is firmer, with no shipment offers. Australian eucalyptus is dearer forward.

ALMOND.—Some British expressed oil is being quoted at cheap prices: Continental material is comparatively dear to come forward. English made, cwt. lots, 3s. 5d.; smaller parcels, up to 3s. 7d. per lb.; foreign, cwt. lots, 3s. 6d.; smaller parcels, 3s. 8d. per lb. French, bitter, 6s. to 6s. 6d. per lb., as to quantity.

ANISE (STAR).—Market has been quiet, quoted unchanged: spot, leads, 3s. 6d.; tins, 3s. 4d.; drums, 3s. 2d. per lb., ex store; shipment, leads, nominal; tins, 3s.; drums, 2s. 10½d. per lb., c.i.f.

BERGAMOT.—Both the spot and shipment markets have been slack again this week: spot, 13s. to 13s. 9d.; shipment, 13s. to 13s. 3d. per lb., c.i.f., as to brand.

BOIS DE ROSE.—In the continued absence of shipment offers and despite the slow sale on spot, supplies of Brazilian are now very limited. The price now asked is from 6s. per lb. upwards, as to packing and quantity.

CANANGA.—Market is dull and irregular: spot, 6s. 3d. to 6s. 7½d.; shipment, 6s. 3d. per lb., c.i.f.

CARAWAY.—Market is steady, business rather quiet. Dutch, rectified, 8s.; crude, 7s. 7d. per lb., landed and duty paid.

CASSIA.—Moderate spot business with prices keeping steady: spot, 3s. 2d. to 3s. 3d. for good quality oil; shipment, leads, 3s.; drums, 2s. 10d. per lb., c.i.f.

CEDAR LEAF.—A small parcel business on spot, with quotations at about 4s. 9d. to 5s. per lb.

CEDARWOOD.—Business has been moderate on spot, with quotations rather keen in some quarters: African, in drums, 1s.; smaller packages, up to 1s. 3d. per lb. American, in drums, 1s. 1d.; smaller packages, up to 1s. 4d. per lb.

CINNAMON LEAF.—Market is steady, business quiet: Ceylon oil is quoted for shipment at about 3s. 7d. per lb., c.i.f., in drums.

CITRONELLA.—The feature of this market is the stoppage of shipment offers of Ceylon oil: Ceylon, spot, drums, 1s. 6d.; smaller parcels, up to 1s. 10½d.; shipment, drums, nominal. Java, spot, drums, 2s., duty paid, and 1s. 10½d., in bond; smaller parcels, up to 2s. 3d.; shipment, drums 1s. 9d. per lb., c.i.f.

CLOVE.—Madagascar oil is quoted easier for shipment; in other respects the market continues firm: Madagascar, spot, drums, nominal; smaller packings, up to 5s. 9d. per lb.; shipment, about 4s. per lb., c.i.f. English distilled oil is firm: cwt. lots, 6s.; smaller quantities, up to 6s. 3d. per lb.

EUCALYPTUS.—Market continues fully steady, with a little more inquiry being received. Shipment offers are slightly dearer and for May-June shipment only: Australian, 70 to 75 per cent., 1s. 7½d., in tins, and 1s. 7d., in drums; 80 to 85 per cent., 1s. 8¼d., in drums, per lb., landed; higher prices for small lots on spot; shipment, 70 to 75 per cent., 1s. 6d.; 80 to 85 per cent., 1s. 7d. per lb., c.i.f., for tins in cases. Spanish, 70 to 75 per cent., 1s. 6¾d. per lb., landed.

GINGERGRASS.—Spot quotations vary as to seller from 7s. to 8s. 3d. per lb. Quantity available limited. No shipment offers.

GRAPE-FRUIT.—A small spot inquiry, with most holders of Californian quoting from 11s. to 12s. per lb., as to quantity.

HO (SHIU).—This market continues very firm on spot and supplies of good quality oil are now running very low. No shipment offers from the source. Spot, 2s. 6d. to 2s. 10½d. per lb., as to quantity and packing.

JUNIPER BERRY.—Spot quotations vary as to quality of the oil and range from about 2s. 9d. to 3s. 6d. per lb.

LAVENDER.—Market is steady, with values unchanged, business quiet: French, 38 to 40 per cent., steady from 15s. 6d. to 18s. 6d., with blended oil at cheaper prices. Lavandin is quoted from 9s. 6d. to 11s. per lb., as to quality and quantity. There may be some cheaper sellers.

LEMON.—The source reports shipment business continues very slow and in consequence quotations have again been slightly reduced and now range from 13s. to 13s. 9d., c.i.f.: spot quotations vary as to quality and age of the oil and range from 12s. up to 14s. 6d. per lb., ex store. No cold-pressed Californian available; small arrival of distilled regular quality, which is quoted at 8s. 4d. per lb., ex store.

LEMONGRASS.—Shipment business remains quiet, with the price about 1s. 8d., c.i.f.: spot, 1s. 10d. to 2s. per lb., ex store.

LIME.—West Indian distilled is selling quietly on spot at about 22s. 6d. to 23s. 6d. per lb., as to quantity.

MANDARIN.—This market is firm for good quality oil, with shipment at 20s., c.i.f., and spot 19s. to 21s. per lb., as to quality and quantity.

NEROLI.—There are spot quotations from about 15s. to 21s. 6d. per oz., as to quality and quantity.

NUTMEG.—The American oil is at the recent advance, and is held for 6s. 3d. to 6s. 4½d. per lb., spot. English-made oil is steady on spot at 5s. 9d. to 6s. 3d. per lb., as to quantity.

ORANGE.—Sicilian oils are unchanged on quotation, and of practically no interest. French Guinea oil is sharply dearer on spot and very firm for good quality new crop oil, with holders requiring 6s. 3d., 6s. 6d. and up to 7s. 6d. per lb. Old crop oil and some off-quality oil at cheaper prices. No shipment offers from the source, and advice that crop has all been cleared. Californian oil in quiet demand. Small drums, 4s. 2½d.; tins in cases, 4s. 3½d.; single cases, 4s. 6d. per lb., ex store.

PALMAROSA.—Occasional shipment offers from the source in the region of 11s. 6d., c.i.f., with no business moving: spot sellers at about 10s. 6d. per lb., ex store.

PATCHOULI.—Spot business in Singapore oil has been modest, with quotations from 16s. up to 16s. 4½d., as to quantity; shipment is maintained at 15s. 6d. per lb., c.i.f.

PENNYROYAL.—Dealers are quoting cwt. lots at about 4s. 9d. and small parcels up to 5s. per lb.

PEPPERMINT.—The Japanese product has remained rather quiet except for a moderate consuming demand: spot, 5s. to 5s. 1d., as to brand; afloat, 4s. 9d., c.i.f. Speculative business in April-May and May-June at 4s. 9d., c.i.f., reported. Japanese shippers quoting April-May at 5s. to 5s. 1d. per lb., c.i.f., as to seller, with resellers at 4s. 9d. per lb., c.i.f. The AMERICAN natural oil is quoted for shipment at about 2 dollars 50 to 60 cents per lb., c.i.f.; spot supplies are offered at comparatively cheap prices, with business quiet.

PETITGRAIN.—Business has been slow: spot, 4s. 2d. to 4s. 3d. for cases and up to 4s. 6d. for smaller packings; shipment, 3s. 10d. per lb., c.i.f., in cases.

ROSEMARY.—Moderate spot demand, with good quality Spanish oil steady at about 3s. 7½d. to 4s. per lb., as to quantity.

SANDALWOOD.—Genuine East Indian Mysore, 19s. per lb., in one-case lots on spot; oil described as British Indian at very competitive prices. English-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, 7s. 3d. per lb. Australian oil continues steady: five cases, 14s. 6d.; one case, 14s. 9d.; 7-lb. tins, 15s. 3d. per lb.

SASSAFRAS.—Good quality natural oil on spot is quoted from 3s. 6d. to 3s. 9d. per lb., as to quantity. Artificial oil at cheaper prices.

SPEARMINT.—Modest business, mostly at keen prices; quotations irregular: spot, 8s. 3d. to 8s. 10½d.; shipment, 7s. 7½d. to 8s. 3d. per lb., c.i.f.

SPIKE.—There is a moderate supply of good average quality Spanish oil on spot, with quotations from 4s. 9d. to 5s. 3d., and holders want close up to 6s. for the finest quality.

VETIVERT.—Small spot parcels of Bourbon would be quoted at 26s. 6d. to 27s. per lb., ex store.

WORMSEED.—Market has been quieter, quoted dearer forward: spot, 11s. 3d. to 11s. 9d., as to seller; shipment, up to 12s. per lb., c.i.f.

Correspondence

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Pharmaceutical Society's Council Election

SIR,—At a general meeting of the Plymouth Branch it was unanimously agreed to ask candidates offering themselves for election to the Society's Council this year to answer the *questionnaire* used at the last election. Candidates offering themselves for election are invited to answer the following:—

(1) Are you engaged solely in retail pharmacy?

(2) If engaged in wholesale trading, do you supply retailers other than pharmacists?

(3) Are you financially interested in (*a*) wholesale trading with unqualified vendors? (*b*) unqualified drug stores or similar businesses?

(4) Are you in favour of territorial representation on the Council?

(5) Are you supporting the Chemists' Friends movement?

It is not expected that candidates will give a simple "Yes" or "No," but their views on the various questions are desired by those wishing to vote intelligently. Many of us know little of these during election, and the candidates themselves are ignorant of the wishes of the voters. By means of this *questionnaire,* part of the difficulty is overcome, to candidates and voters alike. The result of this *questionnaire* will be published after a meeting of the Branch, called to consider the replies, which may be sent to David G. Hawkins, secretary, Plymouth and District Branch of the Pharmaceutical Society, 12 Hyde Park Terrace, Plymouth. A copy will be sent to any candidate on request.—Yours, etc.,

DAVID G. HAWKINS.

Plymouth.

SIR,—One does not envy the seven members of the Pharmaceutical Society's Council who, presumably, are standing for re-election next May. They will have much to explain and considerable criticism to meet. I am rather inclined to think that the apparent apathy of members covers a resentment which may express itself in an unanticipated manner in the near future. There are decided rumblings for which I can personally vouch, and your two leading articles on another subject have roused dormant emotions. Members of the craft are realising that the Council election time draws near, and that what is wanted to stop the rot is a new view-point. The cult of the "handmaid to medicine" business has gone; and electors are waking up to the fact that if a living is to be secured, they must find new men and women as their representatives who have vigour, independence of mind and vision. The pooling of views usually adopted by retiring members of Council is primarily with the object of saving electoral expenses. This manœuvre has worn rather thin, however, and inquiring electors (especially of the younger generation) are wondering how it is that such admirable unanimity should exist in so many divergent individuals. It would be well, therefore, if for the sake of their own peace of mind the retiring seven abandon the time-honoured pooling system, for this year at least.

I am, etc.,

ELECTOR (23/3).

Proposed N.H.I. Extension

SIR,—Mr. J. F. McNeal, in his address at Birkenhead (*C. & D.*, March 20, p. 322), referred to a Bill to increase the scope of National Health Insurance to include persons receiving salaries over £250 a year. Such an extension of medical benefit would increase the incomes of doctors considerably, but whether it would induce them to give up dispensing entirely is not certain, because there would still be a number of people not on the panel. So far as chemists are concerned with such a scheme, they are only too well aware that under the present Tariff they have had a dead loss of over 5 per cent. on last year's insurance payments, and 10 per cent. is being withheld this year in anticipation of a further shortage. Any extension of benefit can only result in more discounting; added to this must be reckoned the loss of many counter sales which are made to persons with incomes on this scale. When we consider that the doctors are pressing for an increased capitation fee and that they have refused to accept youthful panel patients at a lower fee than adults, we can see that chemists will have to choose whether they are willing to go on subsidising the panel out of their own pockets, or whether they will present a united demand for a reasonable contract with adequate remuneration and payment in full. The introduction of a Bill to extend the benefits will give them the opportunity of stating their determination to secure proper terms or to leave it alone altogether.—Faithfully yours,

SCALE UP (22/3).

Payment for Insurance Dispensing

SIR,—During the past few days I have received cheques from two Insurance committees for N.H.I. dispensing. Each has been accompanied by a statement showing that part was in final settlement of dispensing fees for 1936, and that these were paid for at the rate of 94.6 per cent. On the face of it, just over 5 per cent. loss of dispensing fees did not appear very terrible, but, with one account was a copy of the Ministry's letter which disclosed that the total loss of fees throughout the country was about £65,000. A deduction like this from the hard-earned and meagre dispensing fees chemists are allowed is appalling, and calls for Government assistance to make up the deficit at once. Should a trading concern (either company or private) default like that they would soon find themselves being brought to book, but here there is no redress. On top of this I read elsewhere that the medical profession has the nerve to apply for an increase in fees! Surely it is time the N.H.I. was treated as it originally set out to be, i.e., as an insurance and not an unlimited charity.—Yours faithfully,

PERCY G. MORGAN.

Whitchurch, Shropshire.

Dictaphones and their Dust

SIR,—Although I have used a machine of this class for a number of years I have not yet suffered from "Dictaphone Dust Dermatitis" (p. 336), nor have I ever heard of a case in this country. The fact of the matter is that we can frighten ourselves into all kinds of complaints by an over-active imagination; and I can well imagine a nervous business man, reading such an article as you quote, developing a rash which is attributed to dust from the typewriter—or even blotting pad! One of the drawbacks of our present-day civilisation is that we know too much about many things, and the knowledge is not always good for us. It is probably true that the less we know of the dangers that daily gest our path, the more likely we are to come through them safely. We should not, of course, carry the spirit of bravado and indifference too far. The surgeon would be unwise to undertake a *post-mortem* operation without first drawing on a pair of rubber gloves, and the worker in an ampoule-filling room should not start work without seeing that his or her hands are surgically clean and that no dust or dirt is brought in on clothing and shoes. "Forewarned is forearmed" is, however, a maxim which under some conditions may be carried too far.—I am etc.,

DUSTED (23/3).

Steamy Windows

SIR,—By the time this reaches you there will be little need in Britain for correction of steamy shop windows, but for the next season I would advise your readers to dispense with all chemical preparations and use either one or more electric fans at the back of the windows. The impinging of the air on the inside surface of the windows quickly dries off all deposited moisture. Where the moisture has frozen, the frost should be first removed or much time will be lost. When the frost has either been removed mechanically, chemically or by mere evaporation further frosting is prevented. I first used this method in England about forty years ago. [Our correspondent writes from Natal.—EDITOR.] It is wonderful what little current is needed for the purpose. Slow-moving fans may be used without audible sound. They are practically invisible if properly camouflaged. Out of several hundreds of cases I have never known this method fail. The surface of the glass is left clean and dry. I suggest that all evaporation is a physico-chemical process and therefore the sale of fans for prevention or cure of steamy windows should come within the scope of the chemist and druggist.—Yours faithfully,

SUCCINUM (25/2).

Miscellaneous Inquiries

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

T. C. (2/3).—THEATRICAL STAGE SMOKE.—This is rather difficult to arrange on the stage without elaborate procedure. The simplest thing in the case you mention would seem to be the volatilisation of ammonium chloride or the burning of lycopodium powder. A formula for artificial smoke as used by fire brigades is as follows:—

Pitch	4 parts
Borax	1 part
Potassium nitrate	2 parts

S. R. (5/27).—CHEMICAL BAROMETER.—A solution employed as a chemical barometer is made as follows:—

Camphor	150 gr.
Alcohol (90 per cent.)	11 dr.
Potassium nitrate	38 gr.
Ammonium chloride	38 gr.
Distilled water	9 dr.

Dissolve the camphor in the alcohol, and the salts in the water, then gradually add the alcohol solution of camphor to the aqueous solution with constant shaking. The changes of the solution signify the following:—*Clear liquid*—bright weather; *Crystals at bottom*—thick air, frost in winter; *Dim liquid*—rain; *Dim liquid with small stars*—thunderstorms; *Large flakes*—heavy air, overcast sky, snow in winter; *Threads in upper portion of liquid*—windy weather; *Small dots*—damp weather, fog; *Rising flakes which remain high*—wind in the upper air regions; *Small stars*—in winter on bright sunny days, snow in one or two days. The higher the crystals rise in the glass tube in winter the colder it will be. All the foregoing is empirical.

J. A. (19/33).—HAIR CREAMS.—The following formulas are representative of the modern type of hair cream:—

I

Lanolin	30
Glyceryl monostearate	5
Stearic acid	2
Beeswax	2
Mineral oil	80
Water	60
Triethanolamine	1

II

White wax	10 gm.
Liquid paraffin	150–200 gm.

Warm to melt the wax and add a warm solution of

Borax	1 gm.
Distilled water	15 gm.

R. W. O. (19/33).—BOOKS ON DIET.—The following is a list of publications relating to the Hay diet:—"The Hay System Menu Book," 5s.; "Health via Food," 8s. 6d.; "A New Health Era," 8s. 6d.; "Dr. Hay's Foolproof Meal Chart," 4s. 6d.; "The Hay System Pocket Guide," 2s. 6d.; "Weight Control," 3s. 6d.; "Building Better Bodies," 5s.; "The Hay System of Child Development," 6s.; "The Official Cook Book of the Hay System," 18s.; "The Hay System Cookery Book," 6s. The above are published by G. C. Harrap & Co., Ltd.

W. M. (10/33).—SKIN BLEACHING LOTION.—A bleaching lotion made on the following lines should meet your customer's requirements.

Citric acid	4·8 gm.
Compound tincture of lavender (U.S.P.X.)	96·0 c.c.
Alcohol (95 per cent.)	240·0 c.c.
Water	240·0 c.c.
Glycerin ... ... to	1000·0 c.c.

Dissolve the citric acid in the water, add the alcohol, compound tincture of lavender and sufficient glycerin to make the product measure 1,000 c.c.

T. A. W. (22/33).—LOCUM'S INSURANCE.—The question as to whether insurance contributions are payable in respect of a locum seems to depend on whether there is a contract of service. In our opinion there is, since the locum is, in effect, the temporary employee of the proprietor. It is of course assumed that the locum has neither private income nor other remuneration sufficient to take him outside the scope of the Acts.

W. K. G. H. (2/34).—CACODYLATES AS POISONS.—Fraisse's ferruginous ampoules are poisons coming within the First Schedule to the Poisons Rules. In general, such solutions of cacodylates of iron, sodium or strychnine as used in medicine are First Schedule poisons, owing to their content of arsenic being many times in excess of the limit of 0.01 per cent. of As_2O_3 (e.g., the aforesaid ampoules contain 0.64 per cent. of arsenic (as As_2O_3) in the form of iron cacodylates (1 per cent.) and strychnine cacodylate (0.05 per cent.). Solution of cacodylates for oral administration are usually prescribed in drop doses and are First Schedule poisons. Dilution below 0.01 per cent. of arsenic will make mixtures exempt from the First Schedule with dosage around ½ oz., but there will be the question of stability of such dilute solutions.

W. S. (22/33).—WITCH HAZEL JELLY.—The following recipe for witch hazel jelly is given in "Pharmaceutical Formulas," Volume II:—

Gelatin	℥ij.
Glycerin of starch	℥vj.
Boric acid	ʒ j.
Distilled witch hazel extract	℥x.
Orange-flower water	℥ j.
Oil of neroli	♏xx.

Soak the gelatin for twelve hours in the orange-flower water, then add the glycerin of starch and boric acid, and heat till the gelatin is dissolved: then add the other ingredients.

A. L. W. (14/24).—WARBLE FLY.—The Warble Fly (Dressing of Cattle) Order, 1936, requires all cattle visibly infested with the maggot of the warble fly to be treated by one of the two methods prescribed in the Order, between March 15 and 22. The alternative methods are (1) dressing the backs with a derris preparation made up in accordance with the specification laid down in the Order, or (2) dealing with all ripe maggots by squeezing out of the back or removing them by other mechanical means and destroying them. If owners adopt (1), dressings will be necessary at monthly intervals until the maggots cease to appear. If they adopt (2) and deal with the maggots, they must continue that method at intervals of not more than ten days commencing, as in the case of the dressings, in the middle of March and continuing until the maggots cease to appear. It will not be necessary to continue treatment after June 30. Receptacles containing derris preparations sold for the purpose of treating cattle infested with warbles are required by law to be labelled with a statement containing full directions for dilution and use, and certifying that the dressing, when prepared in the manner described in the directions, will be in conformity with the requirements of the Warble Fly Order.

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," March 26, 1887

Progress of a Pharmacy Bill

The Pharmaceutical Society's Curriculum Bill has now passed through all its stages in the House of Lords. Not one word of opposition, not even an inquiry as to its purport, was raised on any occasion when the Bill came before the House. One or two verbal amendments have been made at the suggestion of the Privy Council, but with that exception there has not been the slightest sign of interest in the provisions of the Bill manifested by any peer . . . The Bill may or may not be a desirable one for the public. Such effect as it will have will be at least to the advantage of existing chemists and druggists. It gives to the Pharmaceutical Council power to make the admission to the business more difficult, and confers on chemists and druggists the exclusive right of training their successors. It introduces, in fact, a new principle into pharmaceutical legislation. . . . The chance of the Bill getting through the House of Commons this session is extremely slender, as anyone can judge who glances at the condition of public business.

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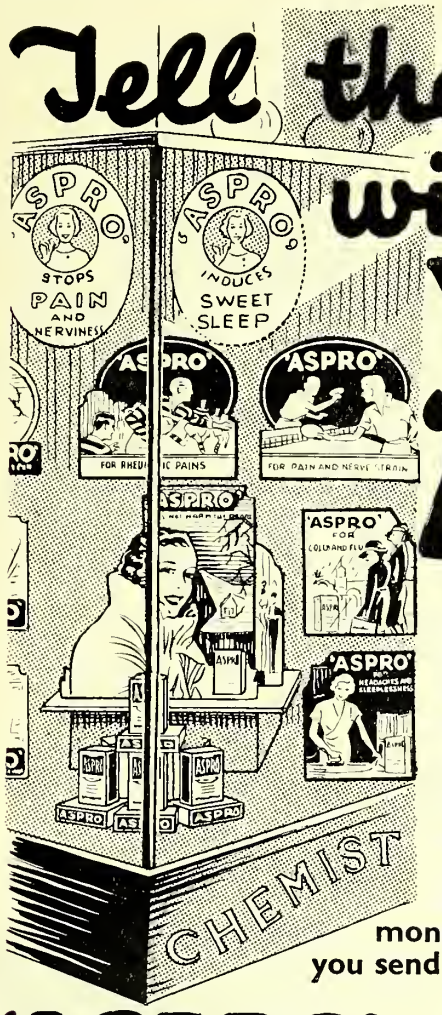

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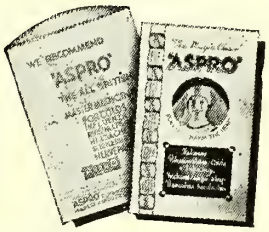

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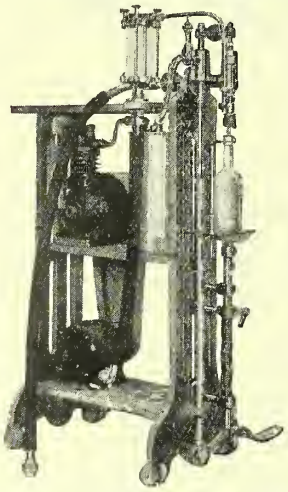

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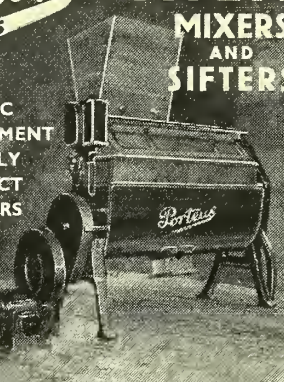

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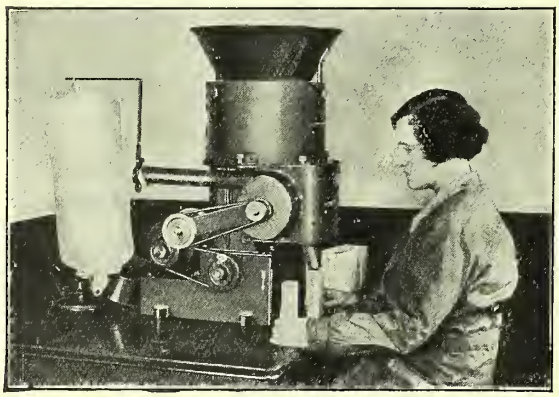

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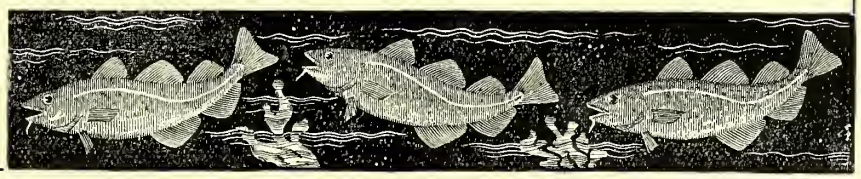

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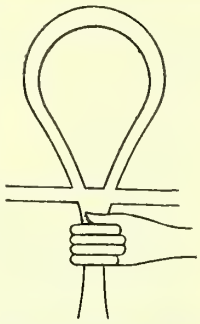

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FOR TUITION in Mathematics, Optics and Sight-testing apply C. V. Bolton, F.S.M.C., F.I.O., 49A Leigh Road, Leigh, Lancs.

LEARN CHIROPODY.—Independent Practice requires small capital or excellent prospects for salaried positions; 6 months' intensive or 12 months' general Course, connected with world's largest Foot Hospital, gives unusual training facilities. Call or write, National School of Chiropody (Dep. 90), 133 Upper Street, London, N.1.

AGENCIES

EXCLUSIVE WHOLESALE DISTRIBUTION

offer to first class firm by British Company making nationally advertised products now established in public favour and carrying good profits. Please give full particulars of territory covered and nature of selling organisation.

BOX No 11

The Keystone Advertising Service Limited, 12 Orange Street, Haymarket, S.W.1

DIRECTOR of South African firm, anxious to secure Agency for good selling Chemists' lines, is visiting England in June. Manufacturers interested in obtaining distribution of their products in Union of South Africa are invited to write in first place to Messrs. J. M. Wotherspoon & Co. (Pty.), Ltd., 194/200 Bishopsgate, London, E.C.2.

SELL IN THE INDIAN MARKET.—We spend more than £3,000 per year in publicity propaganda of a single foreign line; cash against consignments; widest publicity at our cost; vast field in the Indian market. If you want to avail yourself of our services, please write to The Eastern Trading House, 28 Apollo Street, Fort, Bombay (India).

APPOINTMENTS

SURREY COUNTY COUNCIL.
EPSOM COUNTY HOSPITAL.
APPOINTMENT OF FEMALE DISPENSER (NON-RESIDENT).

APPLICATIONS are invited for the above appointment. The Hospital is at present administered by the Public Assistance Committee, but will, it is expected, be appropriated to the Public Health Committee on the 1st April, 1937.

Applicants must be registered as Pharmaceutical Chemists or Chemists and Druggists, and the successful candidate will be required to pass a medical examination.

In addition to the dispensing work at the Hospital the person will be required to undertake some clerical work, and assist in the Radiography.

Salary at the rate of £200, rising by annual increments of £5 to £225 per annum.

Applications setting out qualifications and experience, and accompanied by copies of not more than three recent testimonials, should be endorsed "Dispenser" and sent to the County Medical Officer, so as to reach him not later than the 7th April, 1937.
Canvassing will disqualify.

DUDLEY AUKLAND,
Clerk of the Council.
County Hall,
Kingston-on-Thames.

APPRENTICES

BRIGHTON.—Apprentice, male only, wanted in good-class Pharmacy on sea-front; opportunity to learn first-class Dispensing and Photographic business; no premium; small salary; can attend classes at local Pharmacy School. Apply Adams, Chemist, 56 Marine Parade, Brighton.

SITUATIONS OPEN

RETAIL (HOME)

6s. for 40 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

BEACONSFIELD, BUCKS.—Young Qualified Assistant, lady or gentleman, wanted shortly for about 5 months in good-class Dispensing Business; competent to take charge occasionally. Apply, with copies of testimonials, stating age, experience and salary required, Tidy, Chemist, Beaconsfield, Bucks.

HUDDERSFIELD ROYAL INFIRMARY.
321 Beds.

REQUIRED, Assistant Lady Dispenser with Apothecaries' Hall qualification, to commence duty on May 1; salary £117 a year plus lunch and tea.

Applications, together with copies of three recent testimonials, to be addressed to the undersigned, to arrive not later than April 7.

H. J. JOHNSON,
Gen. Supt. and Secretary.

LONDON, E.12.—Qualified Assistant, young; mainly Dispensing; no Sunday duty. Write, giving full particulars, to S. R. Smith, M.P.S., 680 Romford Road, Manor Park, London, E.12.

LONDON, N.W.10.—Wanted, Qualified Manager (26-30) for Branch at Neasden; with good general experience; capable Window-dresser. Please give full details of experience, copies of references, salary required, etc., to Mr. Edgar Davies, 59 Dudden Hill Lane, Willesden, N.W.10.

LONDON, W.1.—Manager (not under 30) required for first-class business; previous West End experience an advantage; progressive position to the right man. Full particulars of experience and salary required to 33/5, Office of this Paper.

LONDON, W.1.—Qualified Assistant (male) wanted as First Assistant in West End Dispensing Pharmacy; please give full particulars, especially where dispensing experience has been obtained, when at liberty and when available for interview. Reply 33/7, Office of this Paper.

MANCHESTER.—Family Chemist requires Qualified Branch Manager, with Optical qualification preferred; also Unqualified Assistant, for working-class district; living accommodation; state age, when at liberty and salary required. 33/10, Office of this Paper.

SOUTH WALES.—Improver or Junior (either sex); must be obliging and willing; assist all duties; moderate salary to commence Apply, stating age, height, experience and salary expected, enclose photo (which will be returned), 33/20, Office of this Paper.

A SMART, young, experienced Salesman; take charge West-End Rubber and Surgical Store; salary and commission; good references essential. Write Box D321, Willings, 86 Strand, W.C.2.

ASSISTANT, Unqualified, single, male, for High-class Pharmacy; good Dispenser and Window-dresser. Give full particulars and salary required first letter, Balkwills, Chemist, 106 Old Town Street, Plymouth.

ASSISTANT wanted for high-class suburban business, ten miles from Manchester; must be good Dispenser and Salesman. Send full particulars as to age, experience and salary required, 33/3, Office of this Paper.

EARLY in April, a young gentlemanly Assistant is required for a good-class business near London; recently Qualified preferred. Apply, with full particulars, age, experience and salary, to 32/6, Office of this Paper.

EXPERIENCED D. and P. worker; must be a good Velox Printer; either sex; preferably with Chemists' Sales experience. Edmonds, Chemist, Weymouth.

EXPERIENCED Lady Chemist, to manage village Pharmacy near main branch. Also experienced Lady Chiropodist required. Apply, with full references, etc., and wage required, to Mr. A. E. Pearce, Chemist, 63 High Street, Sittingbourne.

EXPERIENCED male Assistant (Qualified or Unqualified) required for West End; must have good Sales record and thorough knowledge of modern Toilets; permanent position, with scope for improvement. Applications, state age, height, full experience and salary required, to Coomer & Richman, Ltd., Dispensing Chemists, 12A Argyll Street (near Palladium), Oxford Circus, W.1.

GOOD Salesman for West-End Surgical Store; Thursday afternoons only, 1-8 p.m. Write Box E322, Willings, 86 Strand, W.C.2.

JUNIOR Assistant required immediately, for S.W. London. Full particulars to 32/2, Office of this Paper.

LADY Assistant, Unqualified, for Dispensing; to make herself generally useful. Apply by letter first, giving full particulars, experience, reference and wages, to J. M. Pearson, 63 Lupus Street, S.W.1.

LOCUM.—Qualified Lady, May 24 to June 19, also August 30 to September 25; duties light; suit recently Qualified; North London. P.C.B. 238/30, Office of this Paper.

PHARMACY.—Qualified Pharmacist required as Managers' Relief, view permanency. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society, Ltd., 113 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." *Note.*—Canvassing of members of the General Committee or Officials will disqualify.

QUALIFIED Assistant required for the season commencing May. Also Unqualified Junior; permanency. Apply, with full particulars, experience, age, salary and photograph, to Long & Strickland, High Street, Bognor Regis. Applications not answered in 10 days respectfully declined.

QUALIFIED Assistant wanted for good-class West End Business; permanency; must be of good appearance. Please write, giving full details of experence, age, height and salary expected, C. R. Wood, 164 Notting Hill Gate, W.11.

QUALIFIED Chemist, to build up badly neglected business in North London; fair salary and good commission; excellent prospects for man with initiative. Apply, with references (by letter), G. H. Pierson, 94 Queen's Road, Bayswater, W.2.

QUALIFIED Junior or experienced Unqualified Assistant required Apr. 20; no Sunday or half-holiday duty; quick and accurate Dispenser; knowledge of Photography; full particulars in first letter of age, experience and salary required. Liner, Chemist, Great Yarmouth.

QUALIFIED Lady Dispenser wanted; part-time appointment for Doctor's Practice in Nottingham. 34/1, Office of this Paper.

QUALIFIED Lady required in good-class Dispensing Business in South-West London district. Apply, giving full particulars, to Box No. 8166, Frost Smith Advertising, 64 Finsbury Pavement, E.C.2.

QUALIFIED Male Assistant required for high-class business in Kensington; full particulars, age, height, experience and salary expected. 33/12, Office of this Paper.

QUALIFIED Manager required; must be thoroughly capable and energetic; experienced Dispenser and Counterman; permanency to right man. Fullest particulars, salary, references, etc., in first application to E. A. H., 9 Wickham Lane, S.E.2.

REQUIRED immediately, Junior Assistant, lady or gentleman, for good medium-class Pharmacy; Dispensing and Counter experience essential; state age, experience and salary; applicants not answered within 3 days respectfully declined. Carter, Chemist, Reading.

REQUIRED immediately, Qualified Assistants, either sex; must be reliable and good workers; state salary required first letter. C. J. Roe, Chemist, Epsom.

SPLENDID Opportunity in growing business for Qualified Chemist (man or woman); good Dispenser; with all-round business experience and capable of developing the present trade. Apply, giving full particulars of experience, age and salary, to Littleworth Pharmacy Ltd., Weston Road, Stafford.

UNQUALIFIED Assistant (about 25 to 35), male, experienced in high-class Pharmacy, for North London Pharmacy with considerable Optical connexion; duties chiefly Dispensing; a week's holiday given after 6 months; living accommodation if required. Full particulars, with photo, 33/15, Office of this Paper.

UNQUALIFIED Assistant (male) wanted for branch (under 35 preferred); must be an accurate Dispenser and accustomed to quick Counter trade. Apply, stating age, experience, salary required, to Head Office, Wm. Fox & Sons, Ltd., 109-111 Bethnal Green Road, London, E.2 (10 minutes from Liverpool Street).

UNQUALIFIED Assistant wanted, lady or gentleman, for Dispensing Department, high-class Chemists. State age, height, experience and salary required to W. E. Matthews, Ltd., 40 George Street, Croydon.

UNQUALIFIED Assistant (25-35), male; must be reliable; state full particulars first letter; photo if possible. R. C. Harrison, Old Bank Pharmacy, Haslemere.

YOUNG Lady, for Retail, Fancy Goods, Toilet, Drugs. Full particulars, letter only, to H. F. Robinson, Ltd., 96 Marchmont Street, W.C.1.

WHOLESALE

LONDON Wholesale Druggists have vacancy for Junior male Clerk. Write, with full particulars of experience, salary required, etc., 297/753, Office of this Paper.

EXPERIENCED Traveller wanted for Midlands and South Wales; full range Medical, Surgical and Sundries Lines; connexion useful; good worker amply remunerated. 33/38, Office of this Paper.

A SUBSTANTIAL established Company developing a new department desires Representatives in various parts of England to sell bulk and packed Ointments and Toilet Preparations to Doctors and Chemists; applications are invited from Salesmen now calling regularly on Doctors and Chemists desirous and able to take on further lines; please give details of articles now handled, area covered and terms of remuneration desired. 32/4, Office of this Paper.

AN old-established firm of Wholesale Druggists in the North of England are requiring a young but experienced Representative to call upon Medical men, Veterinary Surgeons, etc. Apply, stating experience and salary required, 298/762, Office of this Paper.

MAN wanted to take charge of Warehouse and Despatch Department, East London district; experience in Fancy Goods or Druggists' Sundries and Stock Records essential; one with ability to attend to travellers, sampling, and knowledge of modern packaging preferred. Full details and idea of salary, in confidence, to 298/761, Office of this Paper.

OPENING for Man possessing sound connexion with Provincial Wholesale Chemists and Stores; to carry competitive sundry line; salary and commission to right man. Full details in confidence to 297/742, Office of this Paper.

SOAPS, Perfumes, Toiletries.—Laboratory Assistant wanted (age 19-21); knowledge of Chemistry to Inter. standard; experience of raw materials and accurate compounding essential. Apply by letter to T. F. Bristow & Co., Ltd., Colindale, N.W.9.

COLONIAL, INDIAN AND FOREIGN.

WANTED (East Africa), Qualified Chemist's Assistant (about 35); good health; 3 years' agreement; commencing £30, rising to £35 monthly; send photograph with details record, copies testimonials. 298/763, Office of this Paper.

SITUATIONS WANTED

RETAIL (HOME)

2s. for 18 words or less ; 6d. for every additional 10 words or less, prepaid. (Box No., 1s. extra.)

A.A.—YOUNG Lady, Qualified, open for seaside summer locum, from June; Devon, Cornwall or Isle of Man preferred; good experience and references. Apply 32/1, Office of this Paper.

A CAPABLE Qualified Lady (Irish); experienced Dispenser, Counter, Toilet, etc.; open for Continental Locums or London area from beginning July; excellent testimonials; particulars required. 33/31, Office of this Paper.

ASSISTANT (32), Unqualified, male, competent Dispenser, experienced Counterwork, Window-dressing, Photography, seeks permanency; start immediately. Payne, 15 Walpole Terrace, Brighton.

CHEMIST (50), Qualified, experienced all branches, seeks position as Manager or Superintendent. 33/26, Office of this Paper.

DISPENSER (27), male, seeks situation with Doctor or Chemist; locum or permanency; 10 years' experience. 28/4, Office of this Paper.

JAMES LEES, "Beechwood," New Cumnock, Ayrshire; experienced, Qualified locum; date disengaged, April 19 to May 29; at your service.

M.P.S. (40); London or Midlands; locum; Manager, Superintendent; moderate wage; experienced all branches; successful Prescriber; interview if desired. 32/3, Office of this Paper.

QUALIFIED Chemist (30) seeks change, Manager or Senior; excellent experience all classes business; thoroughly reliable; well recommended; good appearance; London only. "Chemist," 56 West Cromwell Road, S.W.5.

QUALIFIED (25), Square-trained, smart, high-class experience, desires City or similar class of trade; first-class references; free in one month. 33/37, Office of this Paper.

WOMAN Pharmacist, M.P.S., wants work; Hospital or Doctor with large practice in poor neighbourhood; would accept small salary if services really needed and plenty of work; excellent testimonials. 31/1, Office of this Paper.

WHOLESALE

NORTHERNER (34) desires post Representative, Wholesale House; Retail experience; smart appearance; excellent references; any district; can drive car. 33/21, Office of this Paper.

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